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HAM RADIO CATALOG SPRING/SUMMER 2005

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CHA-672/CHA-607 Wall cgr; RBP-607 batt Δ49
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SLC-200-L 5w case; older HT with nicad Δ	6.99
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Alinco - continued

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EDC-91	Quick charger	59.99
EDH-29	Dry cell case for 4-AA's	12.99
EME-6	Earphone	10.99
EME-12	Headset w/earphone/mic/VOX	69.99
EME-13	Headset w/ear bud/mic/VOX	59.99
EME-15	Earphone/mic w/VOX	49.99
EME-20	Tie-pin mic & earphone	17.99
EMS-82	Remote speaker/mic	49.99
EMS-47	Spkr/mic w/volume control	24.99
ESC-35	Soft case for EBP-45N/46N	13.99
DJ-S11T	340mw 2m FM HT/battery holder	79.99
EDC-6	Mobile bracket	15.99
EDC-78	Wall charger; (not for alkalines)	7.99
EDH-18	12v to 5.5v DC/DC conv/cig plug	29.99
EME-6	Earphone	10.99
EME-12	Headset w/earphone/mic/VOX	69.99
EME-13	Headset w/ear bud/mic/VOX	59.99
EME-15	Earphone/mic w/VOX	49.99
EME-20	Tie-pin mic & earphone	17.99
EMS-47	Spkr/mic w/volume control	24.99
ESC-27	Soft case	16.99
DJ-S40T	500mw 440 FM HT/battery holder	89.99
EBP-6	Mobile bracket	15.99
EBP-52N	3.6v 500mah NiMH battery	37.99
EBP-53N	6v 500mah NiMH battery	45.99
EBP-54N	3.6v 1500mah NiMH battery	49.99
EDC-37	13.8v power cable	7.99
EDC-43	Cig lighter cable	10.99
EDC-105	Drop-in NiMH battery cgr, less ps	24.99
EDC-93	Wall ps for EDC-105	10.99
EDH-31	Dry cell battery case	12.99
EME-6	Earphone	10.99
EME-12	Headset w/earphone/mic/VOX	69.99
EME-13	Headset w/ear bud/mic/VOX	59.99
EME-15	Earphone/mic w/VOX	49.99
EME-20	Tie-pin mic & earphone	17.99
EMS-82	Remote speaker/mic	49.99
EMS-47	Spkr/mic w/volume control	24.99
ESC-37	Soft case	13.99
EDH-27	Dry cell case w/charger; DJ-X2T	14.99
EDH-28	DC/DC converter w/cig plug; DJ-X2T	14.99
DJ-X3T	1.1MHz-1.3GHz AM/FM hand Rcvr/cell bld	209.99
EBP-52S	3.6v 500mah NiMH battery	37.99
EDC-105	Drop-in NiMH battery cgr, less ps	24.99

Alinco - continued

AES Price

EDC-93	Wall ps for EDC-105	10.99
EDH-31S	Dry cell battery case	12.99
ERW-4C	PC cable	39.99
ESC-37	Soft case	13.99
DJ-X10T	1.1MHz-2GHz AM/FM/USB hand rcvr/cell bld	309.99
EBP-34N	4.8v 1200mah nicad battery	79.99
EBP-37N	4.8v 700mah nicad battery	34.99
EDC-16B	Cigarette lighter cable w/filter	21.99
EDC-36	Angle plug power cable w/filter	24.99
EDC-37	13.8v power cable	7.99
EDC-43	Cig lighter cable	10.99
EDC-88	Quick charger; nicad battery packs	59.99
EDH-16	Dry cell battery case	12.99
EME-6	Earphone	10.99
ESC-28	Soft case for EBP-33N	13.99
ESC-29	Soft case for EBP-37N	13.99
ESC-30	Soft case for EBP-34N	13.99
DJ-X2000T	1-2149MHz receiver/cell blocked	499.99
EBP-34N	4.8v 1200mah nicad battery	79.99
EBP-37N	4.8v 700mah nicad battery	34.99
EDC-16B	Cigarette lighter cable w/filter	21.99
EDC-36	Angle plug power cable w/filter	24.99
EDC-37	13.8v power cable	7.99
EDC-43	Cig lighter cable	10.99
EDC-88	Quick charger; nicad battery packs	59.99
EDH-16	Dry cell battery case	12.99
EME-6	Earphone	10.99
ERW-4C	PC cable	39.99
ESC-28	Soft case for EBP-33N	13.99
ESC-29	Soft case for EBP-37N	13.99
ESC-30	Soft case for EBP-34N	13.99
DR-M06TH	20w 6m FM Xcvr/TTP/encoder	259.99
MB-130	Extra mobile bracket	19.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	10.99
DR-135T Mk II	Blk 50w 2m FM Xcvr/TTP mic	169.99
DR-235T	Black 25w 220 FM Xcvr w/TTP mic	249.99
DR-435T Mk II	Blk 35w 440 FM Xcvr/TTP mic	269.99
EDC-37	13.8v power cable; ignition on/off	7.99
EDC-43	Cig lighter cable; ignition on/off	10.99
EJ-40U	Dig board; original 135T/TP/235T/435T	79.99
EJ-41U	1200/9600 TNC unit	129.99
EJ-47U	Digital board; Mk II versions	179.99
ERW-4C	PC cable	39.99
MB-130	Extra mobile bracket	19.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	10.99
SW-620	Windows programming software	29.99
DR-135T Mk II	Blk 50w 2m FM/TTP/1200/9600 TNC	269.99
EDC-37	13.8v power cable; ignition on/off	7.99
EDC-43	Cig lighter cable; ignition on/off	10.99
EJ-47U	Digital board; Mk II versions	179.99
ERW-4C	PC cable	39.99
MB-130	Extra mobile bracket	19.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	10.99
SW-620	Windows programming software	29.99
DR-605TQ	50/35w 2m/440 FM/TTP/EJ24U tone sq	339.99
EMS-14	Desk top microphone	114.99
EDS-8	Adapter for EMS-14 w/DR-605TQ	28.99
EMS-54	Extra microphone	49.99
MB-130	Extra mobile bracket	19.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	10.99
DR-620T	50/35w 2m/440 FM Xcvr/TTP	339.99
EDS-9	Separation kit	45.99
EJ-47U	Digital board for DR-620T	179.99
EJ-50U	TNC unit for DR-620T	129.99
ERW-4C	PC cable	39.99
MB-130	Extra mobile bracket	19.99
HK-130	Hardware kit for MB-130	4.99

Alinco - continued

AES Price

PC-15B	Extra DC cable	10.99
SW-620	Windows programming software	29.99
DX-70TH	Comp HF Xcvr/100w 6m/mob bkt	749.99
DM-30MVT	30A switching ps/meter/32A surge	179.99
EBP-8	Front control head bracket	15.99
EBP-9	Extra mobile bracket	32.99
EDS-4	Rem mt acc kit w/5' cable, 2 covers	41.99
EDS-5	5' microphone extension cable	36.99
EDS-6	15' remote cable	68.99
EDX-2	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	114.99
PC-25	Extra DC cable	35.99
DX-77T	160-10m HF Xcvr	699.99
DM-30MVT	30A switching ps/meter/32A surge	179.99
EDS-5	5' microphone extension cable	36.99
EDX-2	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	114.99
PC-25	Extra DC cable	35.99

ALPHA DELTA (ALP)

ATT-3G50	200w 3GHz type N surge protector	\$ 59.99
ATT-3G50-HP	2kw 3GHz type N surge protector	59.99
ATT-3G50U	200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP	2kw 500MHz UHF surge protector	49.99
ATT/3G50	Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP	Extra 2kw arc-plug cart	14.99
Delta-2	500 MHz 2-pos coax switch/protector	49.99
Delta-2/N	1.3 GHz 2-pos coax N switch/protector	64.99
Delta-4	500 MHz 4-pos coax switch/protector	79.99
Delta-4/N	1.3 GHz 4-pos type N switch/protector	89.99
D-4	Extra arc-plug; Delta-2/2N/4/N	9.99
Delta-C	Kit w/ctr ins/2 end ins/static protect	29.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN	Antenna end insulator	each 1.99
DX-80	80m 134' complete dipole antenna	58.99
DX-40	40m 67' complete dipole antenna	48.99
DX-40/20	40/20m 40' low profile dipole antenna	89.99
DX-20	20m 34' complete dipole antenna	48.99
DX-A	160-80-40m twin sloper antenna	70.99
DX-B	160-80-40-30m 60' sloper ant	80.99
DX-CC	80-10m 5-band 82' no trap, no tuner dipole	130.99
DX-DD	80/40m 82' Delta Dipole antenna	100.99
DX-EE	40-10m 4-band 40' no trap, no tuner dipole	110.99
DX-LB	160-80-40m 100' shortened dipole	130.99
DX-LB Plus	160/80/40/20/15/10m 100' short dip	160.99
DX-SWL	AM broadcast-13m 60' SWL sloper ant	89.99
DX-Ultra	AM broadcast-30MHz 80' SWL dipole	129.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Outpost	Base tripod mtg sys for mobile ant	199.99
Pathfinder	1.8-30MHz+6m dig auto ant tuner	299.99
SK-1	Straight Kent key	129.99
SP-1	Single paddle Kent key	139.99
TP-1	Twin paddle iambic Kent key	149.99
VK-1	Vail Correspondent Kent straight key	179.99

Basic Technology Amateur Radio video & book .. 14.99

Also see OUTBACKER

AMECO (AME)

4-01	Code Course Instruction Booklet	D \$ 1.99
CODE COURSES - CASSETTE TAPES		
100-T	Junior code tape, 0-7 1/2 wpm	\$ 5.95
CODE PRACTICE OSCILLATORS & CODE KEYS		
K-1	Bakelite type key	\$ 10.95
K-4	Brass type key	16.95
OCM-2K	Code oscillator & CW monitor kit	19.99
OCM-2W	Wired oscillator & CW monitor	29.99
PREAMPLIFIERS		
TPA	HF receive preamp & indoor active ant	\$ 79.99
P-9T	Power supply for TPA	9.99
PT-3	2-54 MHz transceiver preamp	139.99
P-12T	Power supply for PT-3	9.99

Ameco - continued

FILTERS

HP-75T 75 ohm high-pass filter	\$ 14.99
HP-300T 300 ohm high-pass filter	14.99

AMERITRON (AMR)

AL-80B 1kw PEP out linear amp (3-500Z)	1299.99
AL-82 1.5kw PEP out linear amp (2 3-500Zs)	2299.99
AL-572 1.3kw PEP out linear amp (4 572Bs)	1349.99
AL-800 1250w PEP out linear (3CX800A7)	1699.99
AL-800H 1.5kw PEP out amp (2 3CX800A7)	2499.99
AL-811 600w PEP out linear amp (3 811As)	599.99
AL-811H 800w PEP out linear amp (4 811As)	749.99
AL-1200 1.5kw PEP out linear (3CX-1200A7)	2299.99
AL-1500 1.5kw out linear amplifier (8877)	2649.99
ALS-500M 500w PEP out solid state mob amp	699.99
ALS-600 600w PEP out solid state mob w/ps	1129.99
ALS-600S 600w PEP out solid state amp/switching ps	1249.99

ARB-704 Amplifier Xcvt interface buffer	49.99
PNP-5M Plug & play cable; FT-847	15.99
PNP-7D Plug & play cable; TS-50S/870S/2000	15.99
PNP-8D Plug & play cable; FT-920/1000 series	15.99
PNP-8M Plug & play cbl; FT-817/840/857/897	15.99
PNP-8MK Plug & play cable; TS-480	15.99
PNP-13D Plug & play cable; IC-706 series	15.99
PNP-3S Plug & play cable; FT-100 series	15.99

ARB-704I2 Amp Xcvt interface/cbl; IC-706 series	49.99
ATP-100 Amplifier tuning pulser	49.99
ATP-102 Deluxe amplifier tuning pulser	59.99
ATR-20 1.2kw PEP antenna tuner	419.99
ATR-30 3kw PEP antenna tuner	549.99
ADL-1500 1.5kw dummy load with oil	69.99
ADL-2500 2.5kw dummy load with fan	189.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99

AWM-30 3kw PEP SWR/wattmeter/rem sens	139.99
QSK-5 Stand alone T/R switch	329.99
QSK-5PC PC board kit; T/R switch	229.99
CF-5 Cooling fan for QSK-5	39.99

RCS-4 4-pos wireless remote coax switch	129.99
RCS-8V 160-2m 5-pos remote coax switch	139.99
RCS-8VN 160-2m 5-pos N rem coax switch	149.99
Note: RCS-8V/VN require 8-wire control cable.	
RCS-10 DC-100MHz 8-pos remote coax switch	149.99
Note: RCS-10 requires 4-wire control cable.	

ANTENEX (ANX)

AB-FT 118-896MHz 1/4 wave NMO whip	\$ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N 144-174.24db on gnd plane NMO mob	39.99
BB-1443 144-174MHz 3db 49" NMO mobile	39.99
BB-4303 430-450 3db 11 1/2" NMO mobile	34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile	49.99
CWB-1443 Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C Self-tuning 440-470 5db NMO mob	49.99
GB-8PST1 NMO mag mt w/coax & teflon PL259	29.99
GPSU-15GBNC GPS mag mt ant/coax/BNC	29.99
LBMB-9034 Mirror mt 3/4" hole L-bracket	10.99
MB-8PST NMO hole mt w/coax & teflon PL259	15.99
TRAB-1420 142-164 Phantom whipless NMO	59.99
TRAB-4303 430-450 3db Phantom whipless NMO	29.99
VTMP NMO mt; up to 1" thick plate (UHF barrel)	15.99
Y-1363 136-150MHz 3el 7.1db gold beam	119.99
Y-4303 430-450 3el 7.1db gold welded beam	99.99

Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant	\$ 69.99
APR151.3 2m 3db 33" on glass antenna ...D	69.99
APS151 2m 3db 33" on glass antenna	69.99
KAV-353 On glass replacement mtg kit	12.99
KAV-382 On glass replacement mtg kit ...D	8.99

AES Price

Antenna Supermarket (ANT)

Eavesdropper* 60-11m trap dipole SWL ant .. \$ 89.99

*Specify SO-239 or twin-lead

ANTENNA WORLD (ANW)

COM136-4500NP VHF/UHF port dipole/BNC .. \$ 19.99

ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam	\$ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam	79.00
10w duplexer (installs in boom) w/BNC	59.00
10w duplexer (installs in boom) w/SMA	64.00

ARTSCI (ART)

Lost Users Manuals	\$ 19.95
Repeater Mapbook 12th edition	14.99

ASTRON (ASR)

RS-4L 3A ps, 4A surge, w/cig lighter socket ..	\$ 49.99
RS-7A 5A power supply, 7A surge	59.99
RS-10A 7.5A power supply, 10A surge	69.99
RS-12A 9A power supply, 12A surge	79.99
RS-12S 9A ps, 12A surge, w/speaker	89.99
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	149.99
RS-35A/220V 220v 25A ps, 35A surge	169.99
RS-50A 37A power supply, 50A surge	219.99
RS-70A 57A power supply, 70A surge	259.99
RS-20M 16A ps w/meters, 20A surge	119.99
RS-35M 25A ps w/meters, 35A surge	169.99
RS-50M 37A ps w/meters, 50A surge	239.99
RS-70M 57A ps w/meters, 70A surge	289.99

VS-20ML Variable 16A ps/meters, 20A surge ..	139.99
VS-35M Variable 25A ps/meters, 35A surge ..	189.99
VS-50M Variable 37A ps/meters, 50A surge ..	259.99

RM-35M 25A rack mt ps/meters, 35A surge ..	249.99
RM-50M 37A rack mt ps/meters, 50A surge ..	279.99
RM-60M 50A rack mt ps/meters, 55A surge ..	359.99

SS-25 20A switching ps, 25A surge	109.99
SS-25M 20A switching ps/meters, 25A surge ..	129.99
SS-30 25A switching ps, 30A surge	119.99
SS-30M 25A switching ps/meters, 30A surge ..	139.99

12/115 200w 12vdc-115vac inverter	24.99
N2412-12 10A 22-32vdc to 13.8vdc converter ..	49.99
N2412-24 20A 22-32vdc to 13.8vdc converter ..	79.99

BMI (BMI)

972AD 14" 12/24-hour wall clock	\$ 32.99
973A 12" 24-hour wall clock	49.99

B & W (B&W)

AC-1.8-30 Continuous 1.8-30 MHz vee ant ...	\$209.99
ACS-1.8-30 Continuous 1.8-30 stainless vee D ..	329.99
ACS-5-30 5-30 MHz stainless 65' folded dipole D ..	219.99
AP-10A 51" portable 40/20/15/10/6/2m ant	89.99
AP-10B 51" portable 40/20/15/10/6/2m ant	89.99
AT-55 40/20/15/10m 55' trap dipole ant ...D ..	89.99
BWD-20 14-30 MHz 20' folded dipole	179.99
BWD-45 7-30 MHz 45' folded dipole	189.99
BWD-65 4-30 MHz 65' folded dipole	199.99
BWD-90 1.8-30 MHz 90' folded dipole	209.99
FDMK Mtg kit; folded dipole w/3 pole installation ..	39.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature)	per ft. \$.30
8216	100 ft. Roll 28.99
8216	500 ft. Roll 104.99
8216	1000 ft. Roll 194.99
9201 RG-58 (solid center)	per ft., Δ .16
9201	100 ft. Roll, Δ 14.99

Belden - continued

AES Price

8240 RG-58U (solid center)	per ft. .31
8240	100 ft. Roll 29.99
8240	500 ft. Roll 114.99
8240	1000 ft. Roll 209.99
8259 RG-58AU (stranded center)	per ft. .34
8259	100 ft. Roll 32.99
8259	500 ft. Roll 114.99
8259	1000 ft. Roll 209.99
8219 RG-58AU (stranded, foam)	per ft. .32
8219	100 ft. cut 29.99
8219	500 ft. Roll 109.99
8219	1000 ft. Roll 199.99
8262 RG-58CU (non-contaminating)	per ft. .41
8262	100 ft. cut 38.99
8262	500 ft. Roll 149.99
8262	1000 ft. Roll 269.99
9258 RG-8X (stranded, foam)	per ft. .39
9258	100 ft. cut 34.99
9258	500 ft. Roll 134.99
9258	1000 ft. Roll 249.99
8237 RG-8U	per ft. .64
8237	100 ft. Roll 59.99
8237	500 ft. Roll 249.99
8214 RG-8U (foam)	per ft. .62
8214	100 ft. Roll 57.99
8214	500 ft. Roll 274.99
8214	1000 ft. Roll 514.99
9913 RG-8U (low loss)	100 ft. Roll 59.99
9913	250 ft. Roll 129.99
9913	500 ft. Roll 239.99
9913F7 RG-8U (low loss, flexible)	per ft. .87
9913F7	100 ft. Roll 79.99
9913F7	250 ft. Roll 159.99
9913F7	500 ft. Roll 289.99
9251 RG-8A (non-contaminating)	per ft., Δ .59
9251	100 ft. cut, Δ 54.99
9251	500 ft. Roll, Δ 269.99
8267 RG-213 (non-contaminating)	per ft. .89
8267	100 ft. cut 84.99
8267	500 ft. Roll 369.99

75 OHM COAXIAL CABLE

8241 RG-59U (73 ohm, solid center)	per ft. \$.34
8241	100 ft. Roll 31.99
8241	500 ft. Roll 99.99
8241	1000 ft. Roll 189.99
9248 RG-6U (75 ohm, solid center)	per ft. .42
9248	1000 ft. Roll 269.99
8238 RG-11 (75 ohm, stranded center)	per ft. 1.04
8238	100 ft. cut 99.99
8238	500 ft. Roll 369.99
8213 RG-11 (75 ohm, solid, foam)	per ft. .94
8213	100 ft. cut 89.99
8213	500 ft. Roll 339.99

ROTOR CABLE

8484 4-wire; 4-20 gauge	per ft. \$.34
8484	100 ft. cut 31.99
8484	500 ft. Roll 119.99
8484	1000 ft. Roll 229.99
8448 8-wire; 2-18, 6-22 gauge	per ft. .34
8448	100 ft. cut 29.99
8448	500 ft. Roll 134.99
8448	1000 ft. Roll 259.99
9405 8-wire; 2-16, 6-18 gauge	per ft. .74
9405	100 ft. cut 69.99
9405	500 ft. Roll 319.99
9405	1000 ft. Roll 599.99

Belden - continued**AES Price****COPPERWELD ANTENNA WIRE**

8000	No. 14 stranded antenna wire	per ft.	\$.28
8000	.....	100 ft. Roll	24.99
8000	.....	1000 ft. Roll	199.99

No. 8 ALUMINUM GROUND WIRE

8018	Multiples of 50 ft.	each	\$ 16.99
8018	.....	500 ft. Roll	59.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

FOAM COAX w/PL-259s ON BOTH ENDS

9354	50' RG-8U foam		\$ 59.99
9355	75' RG-8U foam		79.99
9356	100' RG-8U foam		89.99

BELMERIT (BLM)

DM-400	Credit card size multimeter w/case ...		\$ 29.99
DX-405	10 fcn/39 range+20MHz freq multimeter		69.99

BENCHER (BEN)

BY-1	1mbic keyer paddle w/black base		\$109.99
BY-2	1mbic keyer paddle w/chrome base		129.99
BY-3	1mbic keyer paddle, gold plated		299.99
BY-4	1mbic paddle/bk base/gold components		169.99
170-82	Mercury paddle		449.99
ST-1	Single lever keyer paddle, black base		109.99
ST-2	Sgl lever keyer paddle, chrome base		129.99
RJ-1	Dlx hand key w/navy knob/black base		105.99
RJ-2	Dlx hand key w/navy knob/chrome base		129.99
HWK	Hardware kit; 2A-1A for 2" boom		49
YA-1	1kw low pass filter		85.99

BETTER RF (BET)

706	Tune Control for IC-706 series/IC-718		\$ 32.99
I-Mate	Message acc; 746PRO/756PRO II/III		74.99
Yae	Tune Control for FT-100/857/897 series		44.99

Bounty Hunter (BOU)

Fast Tracker	Metal detector/2-tone target ID		\$ 99.99
Tracker IV	Metal detector/3-mode		129.99
Quick Draw II	Metal detector/full motion		229.99
Sharp Shooter II	Metal detector/LCD readout		299.99
Land Star	Metal detector/3-tone audio discrim		349.99
Land Ranger	Metal detector/programmable		449.99
Time Ranger	Metal detector/top-of-the-line		549.99
Carry Bag	For Bounty Hunter metal detectors		29.99
10" Coil	10" magnum coil; adds depth		49.99

BUCKMASTER (BUC)

HamCall	CD-ROM ham listings		\$ 50.99
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BUSHNELL (BUS)

13-0430	4x30 LiteVision compact binoculars		\$ 13.99
13-0721	7x21 compact Falcon binoculars		16.99
13-1226	12x25 camo FRP compact binocs		29.99
13-1250	12x50 wide angle Powerview binocs		59.99
13-2514	8x21 black compact binoculars		17.99
13-3410	7x35 Falcon binoculars		29.99
26-3150	Night Vision 3.1x50 binocular		499.99
78-0040	90mm refractor telescope		359.99
78-0200	4.5" reflector telescope		269.99
78-2010	4.5" reflector telescope		199.99
78-0611	20-60x60 spotting scope w/tripod		79.99
78-0101	1.25" 9mm Kellner eye; 0040/6000/8000		19.99
78-0102	1.25" 25mm Kellner eyepiece		19.99
10-1907	Speedster sports speed gun		199.99
10-1911	Velocity sports speed gun		99.99

AES Price**BUTTERNUT (BUT)**

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln * \$999.99

*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS. COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.

HF-6VX	80/40/30/20/15/10m 26' vert ant		349.99
HF-9VX	80/40/30/20/15/10/6m 26' vert		399.99
A17-12	17 & 12m kit for HF-6VX		65.99
CPK	Counterpoise kit		139.99
MPS	Mounting post sleeve		12.99
RMK-II	Roof mounting kit w/radials		169.99
STR-II	Radial kit only		129.99
TBR-160S	160m resonator		129.99
HF-2V	80/40m 32' vertical		269.99
30-MRK	30m resonator for HF-2V		109.99
TBR-160S	160m resonator		129.99

CQ (CQX)

Building and Using Baluns and Ununs		\$ 19.99
HR Anthology - Homebrewing Techniques		19.99
Lew McCoy on Antennas		15.99
W6SAI HF Antenna Handbook		19.99

CSS (CSS)

Pactern for Windows Software; Kan TNCs ...		\$ 99.99
PKTerm for Windows Software; PK-12/96/232		99.99

CABLE X-PERTS (CAB)

CXP1318FX	CXP1318FX (low loss, flexible) per ft.		\$.68
CXP1318FX	.....	500 ft. Roll	306.99
CXP1318FC-3	3' CXP1318FX/silver teflon PL259s		17.99
CXP1318FC-50	50' CXP1318FX/silver teflon PL259s		55.99
CXP1318FC-75	75' CXP1318FX/silver teflon PL259s		77.99
CXP1318FC-100	100' CXP1318FX/silver teflon PL259s		96.99
CXP1318FC-150	150' CXP1318FX/silver teflon PL259s		138.99
CXP1318FN-3	3' CXP1318FX/type N males		22.99
CXP1318FN-75	75' CXP1318FX/type N males		93.99
CXP1318FN-100	100' CXP1318FX/type N males		112.99
CXP1318FN-125	125' CXP1318FX/type N males		132.99
CXP008C-3	3' RG8 foam/silver teflon PL259s		14.99
CXP008C-6	6' RG8 foam/silver teflon PL259s		17.99
CXP008C-25	25' RG8 foam/silver teflon PL259s		29.99
CXP008C-50	50' RG8 foam/silver teflon PL259s		43.99
CXP008C-75	75' RG8 foam/silver teflon PL259s		56.99
CXP008C-100	100' RG8 foam/silver teflon PL259s		69.99
CXP008C-125	125' RG8 foam/silver teflon PL259s		88.99
CXP213C-6	6' RG213/silver teflon PL259s		17.99
CXP213C-15	15' RG213/silver teflon PL259s		25.99
CXP213C-25	25' RG213/silver teflon PL259s		29.99
CXP213C-50	50' RG213/silver teflon PL259s		43.99
CXP213C-75	75' RG213/silver teflon PL259s		56.99
CXP213C-100	100' RG213/silver teflon PL259s		70.99
CXP08XC-3	3' RG8X/silver teflon PL259s		13.99
CXP08XC-25	25' RG8X/silver teflon PL259s		21.99
CXP08XC-50	50' RG8X/silver teflon PL259s		28.99
CXP08XC-75	75' RG8X/silver teflon PL259s		32.99
CXP08XC-100	100' RG8X/silver teflon PL259s		37.99
CXP058ARBS-3	3' RG58/BNC male-SO-239		18.99
CXP142SBJ-3	3' RG142/SMA male - BNC female		23.99
CXP08XCB-3	3' RG8X/male BNCs		15.99
CXP08XCB-6	6' RG8X/male BNCs		17.99
CXP316RSSO-3	3' RG316/SMA male - SO-239		22.99
CXP522-6	6' keyer hook-up cable w/S-267 plug		23.99

Cbl Xperts - continued**AES Price**

235	1" tinned copper ground braid	per ft.	1.13
235	.....	100 ft. Roll	105.99
2332	1/2" tinned copper ground braid	per ft.	.69
2332	.....	100 ft. Roll	60.99
AZ-10	10ga red/black DC power cord	per ft.	.50
AZ-10	.....	100 ft. Roll	39.99
AZ-12	12ga red/black DC power cord	per ft.	.38
AZ-12	.....	100 ft. Roll	28.99

CAT Comm (CAT)

NVSCAN-1 Southern NV Radio Scanning Directory \$ 15.99

CELESTRON (CEL)

4020	40x dissecting microscope		\$ 79.99
4030	40-500x educational microscope		119.99
4050	40/100/400x biological microscope		199.99
10110	StarHopper 10 Dobsonian telescope		549.99
10112	StarHopper 12 Dobsonian telescope		999.99
10800	StarHopper 8 Dobsonian telescope		399.99
11015	Celestar 8 telescope		999.99
94162	Solar filter for Nexstar 8/Celestar 8		79.99
11022	NexStar 8i telescope/tripod/hand control		1379.99
93501	Heavy duty tripod		299.99
93963	GPS module - CN16		199.99
11034	NexStar 5i telescope		995.99
93963	GPS module - CN16		199.99
11052	Nexstar 8 GPS telescope		2299.99
11053	NexStar 11 GPS telescope		3224.99
21016	C-4R refractor telescope		399.99
21019	C-6R refractor telescope		849.99
21052	FirstScope 60AZ refractor telescope		99.99
21086	FirstScope 80EQ refractor telescope D		299.99
94135	Solar filter for Firstscope 80EQ/WA		34.99
22062	NexStar 60GT telescope		249.99
22082	NexStar 80GT telescope		349.99
302160	Soft case for Nexstar 60/80		49.99
94135	Solar filter for Nexstar 60GT/80GT		34.99
31034	Tabletop 75 reflector telescope		99.99
31044	FirstScope 114 4.5" reflector telescope		249.99
31056	C-6N reflector telescope		399.99
31142	NexStar 114GT reflector telescope		299.99
52200	60mm pro zoom spotting scope		199.99
52211	60mm wildlife zoom spotting scope/tripod		149.99

LENSES (not for 10110, 10112, 31034)

93318	1.25" 9mm Omni lens		\$ 49.99
93320	1.25" 15mm Omni lens		49.99
93326	1.25" 2x Omni Barlow lens		59.99
93351	1.25" 7.5mm Ultima lens		129.99
93352	1.25" 12.5mm Ultima lens		129.99
93353	1.25" 18mm Ultima lens		129.99
93387	1.25" 5mm X-Cel lens		89.99
93389	1.25" 10mm X-Cel lens		89.99
93391	1.25" 18mm X-Cel lens		89.99
93507	1.25" 2x deluxe Barlow lens		D 39.99
94303	Plossl lens/filter kit w/carrying case		199.99
51630	Star pointer finderscope		30.99
93497	Standard tripod		99.99
93590	Red Astro Lite flashlight		5.99
93700	CD-ROM "The Sky for Celestron"		29.99
93722	Sky Map		19.99
93728	Book; Peterson First Guides - Astronomy		9.99
94108	Diagonal, erect image 90°		49.99
94119-A	1.25" moon filter		15.99
94119-10	Eyepiece filter set (21/80/ND13/polarizing)		49.99
94126-A	Model A LPR filter; for 1 1/4" eyepieces		D 69.99

Sorry, no exports on Celestron products.

Channel Master (CHA)

9521A	Prog light duty rotor/IR rem cont/3-wire		\$ 99.99
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AES Price

CLOCKS

BMI 972AD 14" 12/24-hour wall clock	\$ 27.99
BMI 973A 12" 24-hour wall clock	49.99
MFJ 105C 24-hour quartz wall clock	19.99
MFJ 107B 24-hour digital clock	9.99
MFJ 108B 24/12-hour dual disp digital clock	19.99
MFJ 112B Deluxe world map clock	24.99
MFJ 113 24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ 115 DX'er 24-hr analog world wall clock	24.99
MFJ 116DC 12-hour 12vdc LED clock	9.99
MFJ 118 Giant 24/12 hour LCD clock	24.99
MFJ 123 Eternity solar atomic clock	79.99
MFJ 125 Calendar 24-hour analog wall clock	29.99

COAX SEAL (UNV)

104 1/2" x 60" coax seal	\$ 3.99
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Coaxial Dynamics (COA)

81000-A Wattmeter w/SO-239s	\$275.99
83000-A Peak reading wattmeter w/SO-239s	393.99
82004 50w 2-30MHz element	87.99
82005 100w 2-30MHz element	87.99
82006 250w 2-30MHz element	87.99
82007 500w 2-30MHz element	87.99
82008 1000w 2-30MHz element	87.99
82009 2500w 2-30MHz element	125.99
82010 5000w 2-30MHz element	125.99
82013 10w 25-60MHz element	71.99
82014 25w 25-60MHz element	71.99
82015 50w 25-60MHz element	71.99
82016 100w 25-60MHz element	71.99
82029 10w 100-250MHz element	71.99
82031 50w 100-250MHz element	71.99
82033 250w 100-250MHz element	71.99
82046 10w 400-1000MHz element	71.99
82048 50w 400-1000MHz element	71.99
82049 100w 400-1000MHz element	71.99
88000 N female quick match connector each	10.99
88800 Carrying case for meter	65.99

COBRA (COB)

19DX III AM Mobile CB	\$ 49.99
19LTD III AM Mobile CB	49.99
20XTR AM Mobile CB w/neon magnetic ant ..	79.99
21LTD ST Sound Tracker AM Mobile CB	69.99
25LTD (25LTD Classic) AM Mobile CB	89.99
25WXNW ST Night Watch Sound Tracker AM/Mob CBWX ..	109.99
29LTD (29LTD Classic) AM Mobile CB	99.99
29NW Night Watch AM Mobile CB	119.99
29WXNW ST Night Watch Sound Tracker AM/Mob CBWX ..	129.99
75WX ST Sound Tracker AM Mobile CB w/WX ..	99.99
148GTL SSB/AM Mobile CB	149.99
HH-37 ST Sound Tracker handheld CB	59.99
HH-Road Trip Sound Tracker HH CB/WX/mag ant ..	79.99
HGA-1000 Magnet mt CB antenna	19.99
HGM-77 Noise canx/amplified mobile mic	24.99

COMET (CMT)

SWR/POWER METER	
CMX-1 1.8-60MHz 2kw remote SWR/pwr meter	\$169.99
EKS-3 Optional 10' extension cable for CMX-1	28.99

MOBILE ANTENNAS

B-10 2m/440 2.15db 12" cell look-alike ant ..	\$ 42.99
B-10NMO 2m/440 2.15db 12" cell look-alike NMO ..	42.99
C-757 2m/440 2.15/5.5db 38" foldover ant ..	59.99
C-757NMO 2m/440 2.15/5.5db 38" foldover NMO ..	59.99
C-767 2m/440 3.5/6db 40" foldover ant	64.99
C-767NMO 2m/440 3.5/6db 40" foldover NMO ..	64.99
CA-2X4SR 2m/440 3.8/6.2db 40" mob ant	69.99
HA-050 6m 33" 1/4 wave mobile antenna	69.99
HP-32 2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B 2m/440 1.7/4.1db mag mt ant w/BNC	39.99

Comet - continued

M-24M 2m/440 1.7/4.1db mag ant w/PL259 ..	39.99
SBB-1 2m/440 1.5/2.15db 16" flex mobile	42.99
SBB-1NMO 2m/440 1.5/2.15db 16" flex NMO ..	42.99
SBB-2 2m/440 2.15/3.8db 18" black mobile ..	42.99
SBB-2NMO 2m/440 2.15/3.8db 18" blk NMO ..	42.99
SBB-5 2m/440 2.5/5.5db 39" black mobile ant ..	58.99
SBB-5NMO 2m/440 2.5/5.5db 39" black NMO ..	58.99
SBB-7 2m/440 4.5/7.2db 58" black mob ant ..	79.99
SBB-7NMO 2m/440 4.5/7.2db 58" black NMO ..	79.99
SB-14 6m/2m/440 4.3" chrome mobile ant	67.99
SB-15 6m/2m/440 2.15/4.5/7.2db 58" chr mob ..	84.99
SBB-25 2m 4.1db black mobile antenna	48.99
SBB-25NMO 2m 4.1db black NMO mob ant	48.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N	84.99
SB-123 1.2GHz 7.2db 24" type N mobile ant ..	54.99
SBB-22A 2m/220/440 2.15/3.2/6db blk mob ..	78.99
SBB-22ANMO 2m/220/440 2.15/3.2/6db blk NMO ..	78.99
SF-245 2.4 GHz 7db 18" fg type N ant	49.99
SF-245SPR 2.4GHz 7db 18" fg N ant/spring ..	69.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R ..	109.99
UHV-6 40/15/10/6/2m/440 78" mobile ant	159.99
L-3.5 80m loading coil for UHV-6	34.99
L-14 20m loading coil for UHV-6/CA-HV	29.99
L-18 17m loading coil for UHV-6/CA-HV	29.99
Z-750 2/440 2.1/5.5db 39" theft resistant	49.99

MOBILE MOUNTS

304M Mobile mt, 13' coax w/UHF connectors ..	\$ 26.99
304N Mobile mt, 13' coax w/type N	26.99
305M Mobile mt, 16.5' coax w/UHF connectors ..	28.99
504N Roof mount, 13' coax w/type N	34.99
AD-10N NMO mount to female N adapter	17.99
AD-15M NMO mount to SO-239 adapter	17.99
AD-25M SO-239 to NMO mount adapter	14.99
AD-35M 1/2-24 stud to UHF mobile mt adapter ..	17.99
CK-3M Dlx 2-step 10' cable w/UHF connectors ..	35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects ..	42.99
CK-5N Dlx 13' cable assembly w/type N	49.99
CM-5M Hvy duty mag mt, coax, max 4' ant	24.99
CP-5.3/8-24 HD 1/4-24 mt w/16.5' coax	69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax ..	69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax ..	69.99
CQ-5N Dlx black QD tnk lip mt/17' coax/N	29.99
CR-5M Std coax assy, 16.5' coax, UHF conn ..	19.99
CT-5M Trunk lip mount w/16.5' coax	39.99
GRB-5M Deluxe black trunk lip mt w/coax	69.99
MG-4N Magnet mt w/13' coax, N connector ..	54.99
RS-9 Trunk lip mount, no coax	11.99
RS-520 Mini heavy duty trunk/hatch mount	28.99
RS-560C Luggage rack mount, no coax	37.99
RS-720 Hatch/rear door/tank multi-adj mt	29.99
RS-720NMO Hch/rear door/tank multi-adj NMO mt ..	29.99
RS-730 HD rear van/SUV door/tank lip mt, no coax ..	32.99
WS-1M Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna	\$109.99
CA-ABC22A 2m 6.5db 9' 5" base/rptr ant	75.99
CA-ABC23 2m 7.8 db 13' 4" base/rptr ant	109.99
CA-F726F 440-470 6db 3' 6" tunable ant	109.99
CA-52NB4 6m 4 el 10db 10' 6" boom beam	129.99
CX-333 2m/220/440 6.5/7.8/9db 10.25' ant ..	184.99
CY-1216E 1.2GHz 16el 16.6db 4' 5" bn N beam ..	129.99
DS-150S 6m/2m/440/900/1.2 disc/60" coax	99.99
GH-50 6m 2.15db 7' 10" fg base antenna	99.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6 2m/440 6.5/9db 10' 2" base/rptr ant	159.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rptr	199.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rptr ..	199.99
GP-15 6/2m/440 3/6/2.8db 7' 11" base	169.99
GP-21/CA-1221S 1.2 14.8db 8' N base/rptr	159.99
GP-24 2.4GHz 15.4db 5' 10" N base/rptr	169.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant ..	199.99

AES Price

Comet - continued

KP-20 900 MHz 9.2db 7' 4" type N base/rptr ..	112.99
PYA-913 900MHz 13el 15.8db 4' 8" type N beam ..	139.99

DUPLEXERS AND TRIPLEXERS

CF-142 1.3-150/200-480 600/400w UHF/leads ..	\$ 69.99
CF-360A 1.3-30/50-470 600w UHF w/leads	69.99
CF-360B 1.3-30/50-470 600w UHF/common lead ..	69.99
CF-416A 2m/440 800/500w UHF w/leads	49.99
CF-416B 2m/440 800/500w UHF/N w/leads	49.99
CF-416C 2m/440 800/500w N/UHF/N leads	54.99
CF-416W 1.3-250/400-1400w 400/200w N/leads ..	69.99
CF-530 1.3-90/125-470 600w UHF w/leads	74.99
CF-530C Backwards duplexer for FT-8900R	69.99
CF-706A 1.3-56/75-470 350w UHF w/leads	74.99
CF-41601 2m/440 800/500w UHF/UHF/N, no leads ..	48.99
CF-4160J 2m/440 800/500w SO239, no leads	53.99
CF-4160K 2m/440 800/500w all UHF, no leads	48.99
CFX-324A 2m/220/440 600w UHF w/leads	88.99
CFX-324B 2m/220/440 600w UHF, no leads	85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads ..	79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads ..	74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads ..	79.99
CFX-4310C 1.3-150/400/1.2 triplexer, no leads ..	79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads ..	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24 2m/440 17' 2.15/5.3db BNC whip	\$ 24.99
CH-32 2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75 2m/440 0.3/2db 14.75" BNC ant	25.99
HB-05 18" BNC female - SMA male adapter/cbl ..	14.99
HM-05 18" BNC male - SO-239 adapter/cable ..	14.99
HS-05 18" SMA male - SO-239 adapter/cable ..	14.99
HS-10 39" SMA male - SO-239 adapter/cable ..	17.99
HT-224 2m/220/440 11.5" SMA antenna	47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24 2m/440 17' 2.15/5.3db SMA whip	24.99
SMA-501 2m/440/900 1.5" SMA antenna	29.99
SMA-503 2m/440 8.75" SMA antenna	29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1 Expedition Pack for Yaesu FT-817	\$ 99.99
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COMM-SPEC (COM)

ID-8 Automatic Morse station identifier	\$ 69.99
SS-64 64-tone mini prog CTCSS encoder	28.99
TE-32 32-tone CTCSS prog encoder box	49.99
TS-64DS 64-tone CTCSS prog encoder/decoder ..	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP-1050 Male coax plug (PL-259)	\$ 1.99
83-1SP Silver plated coax plug (PL-259)	2.99
Van Gorden (VAN) silver plated teflon PL-259 ..	2.99
83-185-RFX Reducer for RG-58 (UG-175) .....	.99
83-168-RFX Reducer; RG-59/RG-8X (UG-176) ..	.99
(SHA) PL-259-CP-G Solderless PL-259/RG8X/58 ..	6.99
(SHA) PL-258-CP-G Solderless splice; RG8X/58 ..	9.99
83-1AP Right angle adaptor (UG-646)	8.99
83-1J Double female adaptor (PL-258)	6.99
83-1R Female chassis mt socket (SO-239)	3.99
83-1T T-conector adaptor (M-358)	11.99
83-877 Double male adaptor	12.99
83-878 Single hole 1/4" chassis socket	2.99
31-002 BNC male connector for RG-58	4.99
31-012 BNC male connector; RG-59/RG-8X	7.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	7.99
82-64 Type N right angle adaptor	19.99
(VAN) N connector Type N connector for 9913 ..	4.99
82-202-1006 Type N male; 8214/9913/9913F ..	7.99
34025 Type N male connector for RG-58	8.99

Connectors - continued AES Price

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	\$ 14.99
4400 SO-239 to type N male adaptor	14.99
31-28 BNC female to PL-259 adaptor	16.99
(HOU) SMA-872 SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

(PHI) 61-608B 8-pin female mic plug	\$ 4.99
25-7365 BNC female to SO-239	3.99
25-7420 BNC male to SO-239	2.99
26-8010 Type N double female	3.99
26-8011 Type N chassis mount	2.99
26-8014 N female to PL-259	4.99
26-8015 N male to SO-239	4.99
26-8016 BNC female to N male	4.99
26-8017 BNC male to N female	4.99
27-8120 BNC female to PL-259	2.99
27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8142 BNC T, 3 male	Δ 4.99
27-8470 Dual BNC chassis mount	3.99
29-3855 BNC female to SMA male	3.99
29-4140 SO-239 to mini PL-259	2.99
CPAD-207 Chassis mt SO-239 double female	4.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-2P Panel mt 2-pin male	Δ \$.09
CBC-3 3-pin female mic plug	Δ .39
CBC-4 4-pin female mic plug	4.99
CBC-5 5-pin female mic plug	3.99
CBC-6 6-pin female mic plug	4.99
(AIM) 19-1289 8-pin female mic plug	5.99
CBC-8P Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	\$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	\$ 1.69
MH-2 Regular mic holder	1.49
P-35 3.5mm miniature phone plug .....	.69
(DAL) 15-0293 3.5mm mono phone plug	Δ .19
(HOU) AP-115 3/8" metal stereo plug	1.99
(HOU) AP-135 3.5mm stereo mini phone plug .....	.69
P-12R 2-contact cigarette plug	1.99
P-12V Cig lighter plug w/leads	1.99
P-212 2-outlet cigarette plug adapter	4.99
P-212B Dual cigarette lighter socket adapter	8.99

Connect Systems (CSY)

CS-800 Full duplex patch & repeater controller	\$369.99
CS-900 Simplex interconnect	369.99

CROSS DEVICE (CRS)

STUF Coax connector waterproofing filler	\$ 4.99
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CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	\$ 69.99
A148-10S 2m, 10 el wideband beam, 13.2db	109.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	66.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db	89.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db	\$ 89.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	109.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 FM

A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	\$199.99
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Cushcraft - continued AES Price

FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w	\$ 89.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w	89.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w	54.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w	40.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger	\$ 64.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w	74.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w	74.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w	74.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w	\$104.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	109.99

TWIST, OSCAR BEAMS (Horiz/Vert Polarization)

A148-20T 2m 20el 10.8' boom 13db twist	\$154.99
719B 432 19 el 13.5' boom 15.5db	169.99

BOOMER ANTENNAS

124WB 2m Boomer, 4 el, 4' boom, 10.2 db	\$ 99.99
13B2 2m Boomer, 13 el, 15' boom, 14.2 db	169.99
17B2 2m Boomer, 17 el, 31' boom, 18 db	269.99
26B2 2 13B2s vertically stacked	449.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db	79.99

BOOMER POWER DIVIDERS

PD-2 Power divider for 2 13B2s	\$ 71.99
PD-4 Power divider for 4 13B2s	84.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwr	\$124.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwr	189.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwr	299.99
A148-10S 2m, 10 el wideband beam	109.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db	89.99

*Antennas can be mounted vertically or horizontally!

MOBILE ANTENNAS

CS-28M 10m magnet mt antenna	\$ 59.99
CS-50M 6m magnet mt 3 db antenna	59.99
CS-147A 2m coil & whip only	39.99
CS-147M 2m magnet mt 3 db antenna	59.99
CS-220M 220 magnet mt 3 db antenna	59.99
CS-450M 440 magnet mt 5 db antenna	59.99

DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A 2m/440 coil & whip only	\$ 59.99
CS-270M 2m/440 3.7/6 db magnet mt ant	84.99

MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG Magnetic mount	\$ 29.99
CS-MGN Magnetic mount w/N connector	34.99
CS-TL Trunk lip mount	29.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5V 20/17/15/12/10m 14.7' vertical ant	\$219.99
MA-6V 20/17/15/12/10/6m 14.7' vertical ant	259.99
MA-8040V 80/40m 22' vertical antenna	199.99
R-6000 20/17/15/12/10/6m 19' vertical	329.99
R-8 40/30/20/17/15/12/10/6m 28.5' vert	489.99
R-8GK Guy kit for R-8	49.99

ROTATABLE HF DIPOLES

D-3 20/15/10m World Ranger rotatable dipole	\$259.99
D-3W 30/17/12m rotatable dipole	259.99
D-4 40/20/15/10m World Ranger rotatable dipole	369.99
D-40 40m World Ranger rotatable dipole	319.99

BIG THUNDER HF TRI-BAND BEAM

X-7 20/15/10m, 7 el, 18' boom, 12.5/13db	\$669.99
X-740 40m add-on kit for X-7	299.99

BIG THUNDER HF MONOBAND BEAM

XM-240 40m, 2 el, 22' boom, 7 db	\$719.99
TEN-3 10m, 3 el, 8' boom, 8 db	199.99

MULTIBAND HF BEAM ANTENNAS

A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$449.99
A-743 40m or 30m add-on kit; A-3/A-3S	179.99

Cushcraft - continued AES Price

A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwr	\$49.99
A-744 40m or 30m add-on kit; A-4/A-4S	179.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db	369.99
A-103 30m add-on kit for A-3WS	179.99
ASL-1012 13.5-32MHz 8el 18' bm 6.4db LP	749.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam	349.99

LIGHTNING ARRESTORS

LAC-4 200w SO-239 gas tube arrester	\$ 49.99
LAC-4H 20w SO-239 gas tube arrester	54.99
LAC-4N 200w type N gas tube arrester	59.99
LAC-4NH 2kw type N gas tube arrester	64.99
LC-2 Extra 200w cartridge for LAC-4/4N	15.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH	17.99
5VB Vinyl connector boots	pack of 5 15.99

DCI (DCI)

145-2H 2m 144-146MHz 200w bandpass filter	\$119.99
146-4H 2m 144-148MHz 200w bandpass filter	119.99
223.5-3H 222-225MHz 200w bandpass filter	119.99
2m/220 models w/N connectors add \$10 special order	
435-10C 430-440MHz 200w N bandpass filt	139.99
445-10C 440-450MHz 200w N bandpass filt	139.99
146/44-DB 144-148/438-450 200w bp filter	189.99

DC SALES (DCS)

Tenna Hitch 3/4" trailer hitch antenna mt D	\$ 38.99
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DAIWA (DAI)

CN-101 1.8-150 150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M 140-525 20/200w SWR/power meter	99.99
CN-801H 1.8-200 20/200/2kw SWR/pwr meter	149.99
CN-801V 140-525 20/200w SWR/power meter	154.99
CS-201 2-position 600 MHz coax switch	26.99
SS-505 Variable 50A switch ps/fan/meter/3-outputs	399.99

DAVIS (DAV)

6150 Wireless Vantage Pro weather station D	\$499.99
6152 Wireless Vantage Pro2 weather station	539.99
7400 Perception II indoor WX unit	129.99
7425 Wizard III weather station	179.99
7440 Monitor II weather station	269.99
7852 Rain Collector II, 0.01"	69.99
7859 External temp/humid sensor II; 7440	119.99
7862 Weatherlink Win interface/software	149.99
7866 Weatherlink Mac interface/software	D 69.99
7870 Modem adapter for 7862/7866 .....	.D 6.99
7867 Weatherlink Mac to Win conv kit .....	.D 4.99
7868 Weatherlink Win to Mac conv kit .....	.D 4.99
7873 Cig lighter power cord	10.99
7876-040 4-conductor 40' extension cable	18.99
7878-040 6-conductor 40' extension cable	22.99
7880 8-conductor 25' junction box cable Δ	2.99
7881 8-conductor 50' junction box cable	25.99
7882 8-conductor 100' junction box cable	45.99
7890 Mast mount for anemometer	D 9.99
0131 Weather forecasting quick reference card	9.99
0276 WindScribe electronic wind/temp indicator	99.99
0281 Wind Wizard handheld wind indicator	49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C HF/6m/2m 30/300w meter	\$ 89.99
SX-40C 144-470 (220 w/correction) 15/150w	79.99
SX-100 1.6-60 MHz 30/300/3kw PEP meter	134.99
SX-200 1.8-200 MHz 5/20/200w PEP meter	94.99
SX-400 140-525 MHz 5/20/200w PEP meter	114.99
SX-600 Dual band 1.8-160/140-525 200w PEP mtr	169.99
SX-1000 1.8-160/430-1300MHz 200w PEP meter	214.99

HT & HANDHELD SCANNER ANTENNAS

RH-3 2m/440 1.75" BNC mini HT duck	\$ 24.99
RH-77CA 2m/440 15" BNC rubber gain ant	24.99
RH-205 2m 3/4 wave telescopic HT antenna	24.99

Diamond - continued AES Price

RH-519	2m/440 8.3" flexible BNC whip	27.99
RH-707	2m/440 8 3/4" tilt/bale BNC whip	33.99
RH-951S	2m/440/1.2GHz 15" BNC slim duck	44.99
RHF-40	2m/440 16" BNC flexible rubber gain ant	29.99
SRH-77CA	2m/440 15" SMA rubber gain ant	29.99
SRH-320A	2m/220/440 flexible SMA whip	49.99
SRH-51S	2m/440 8.3" flexible SMA whip	29.99
SRH-805	2m/440/1.2GHz 1.75" SMA ant	27.99
SRH-815	2m/440/1.2GHz 6" flex SMA whip	34.99
SRH-999	6m/2m/440/1.2GHz 20" SMA whip	59.99

MONO-BAND MOBILE ANTENNAS

HF-6FX	6m 2.15db 44" mobile antenna	\$ 69.99
HF-50CX	6m 3.5db 71" mobile antenna	99.99
M-285	2m 3.4db 52.4" mobile antenna	31.99
M-285NMO	2m 3.4db 52.4" NMO mobile ant	31.99
M-685	6m 2.15db 52.4" mobile antenna	31.99
M-685NMO	6m 2.15db 52.4" NMO mobile ant	31.99
MG-200	2 6.4GHz 7db 23.6" N mobile ant	99.99
NR-22L	2m 5.6db 96.8" mobile antenna	69.99
NR-124	1.2GHz 8.4db 25" N mobile antenna	64.99
NR-140BNMO	Black 220 4db 37" NMO ant	53.99
SG-200DHD	2m 5.2db 62.6" 250w mob ant	89.99

DUAL-BAND MOBILE ANTENNAS

CR-270A	2m/440 2.15/3.4db 17.2" mobile ant	\$ 42.99
MR-77	2m/440 2.15/3.4db 20" magnetic ant	34.99
MR-77SMA	2m/440 2.15/3.4db 20" mag w/SMA	39.99
NR-72BNMO	Black 2m/440 2.15db 14" NMO	41.99
NR-73BNMO	Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA	2m/440 3/5.5db 40" mobile ant	56.99
NR-770HB	Black 2m/440 3/5.5db 40" mobile	59.99
NR-770HNM	2m/440 3/5.5db 40" NMO mobile	56.99
NR-770HBNMO	Blk 2m/440 3/5.5db 40" NMO	59.99
NR-770HRKS	2m/440 3/5.5db 40" adhesive mt	109.99
NR-7900A	2m/440 3/7.6db 57" hi pw mob ant	84.99
SG-M510	2m/440 2.15/5.5db 37" mob ant	59.99
SG-7000A	2m/440 2.15/3.8db 19" mobile	69.99
SG-7500A	2m/440 3/5.6db 41" mobile ant	79.99
SG-7500NMO	2m/440 3/5.6db 41" NMO ant	79.99
SG-7900A	2m/440 5/7.6db 62" mobile ant	114.99
SG-7900ANMO	2m/440 5/7.6db 62" NMO ant	114.99
K-400CNMO	Hatch/trnk mt/coax; SG7900ANMO	69.99

TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36"	\$ 89.99
CR-320BNMO	Black 2m/220/440 36" NMO ant	89.99
CR-627B	6m/2m/440 2.15/4.5/7.2db 60" ant	99.99
CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60"	99.99
HV-7A	10/6/2m/440 54" UHF mount mobile ant	109.99
HVC-7	40m loading coil for HV-7A/MV-3A ..	44.99
HVC-14	20m loading coil for HV-7A/MV-3A ..	37.99
HVC-18	17m loading coil for HV-7A/MV-3A ..	37.99
HVC-21	15m loading coil for HV-7A/MV-3A ..	37.99
NR-2000NA	2m/440/1.2.3.15/6.3/9.7db 39" N mob	89.99
SG-M911	6m/2m/440 2.15/3.8/5.8db 41" mob	69.99

QUAD-BAND MOBILE ANTENNA

CR-8900A	10m/6m/2m/440 0/0.2/1.5/5.5db 50" ..	\$ 99.99
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ADHESIVE BACKED MOBILE MOUNT

HRKS	S0239 1mt/13' coax/SMA/PL259 adapter	\$ 69.99
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MAGNET MOUNTS

DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max	\$ 49.99
K-702M	Hvy dty mag mt, 6 3/4" dia, 50" max	49.99
SPM-35	Hvy dty mag mt, cable, 45" max	39.99
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max	44.99

TRUNK LIP MOUNTING KITS

K-200KM	Folding hcb/trnk mt/coax; NR/SG ..D	\$ 29.99
K-400	Hatch/trunk mt; NR/SG antennas	39.99
K-400C	Hatch/trunk mt w/coax; UHF mount	69.99
K-400CNMO	Hatch/trunk mt w/coax; NMO mt	69.99
K-400S	Hatch/trunk mt w/coax; UHF mt/SMA	79.99
K-400SNMO	Hatch/trunk mt w/coax; NMO/SMA	79.99
K-400-3/8C	Trunk mount w/6.5' cable; 3/4-2	69.99

Diamond - continued AES Price

K-412C	Light duty hatch/trnk mt w/coax; UHF mt	59.99
K-412CNMO	Light duty hatch/trnk mt w/coax; NMO	59.99
K-412S	Light duty hatch/trnk mt w/coax; UHF/SMA	69.99
K-412SNMO	Lt duty hatch/trnk mt/coax; NMO/SMA	69.99
C-110	10' extension cable for K-412 mts ..	14.99
K-600M	Tilt angle SO-239 trunk mt w/cable ..	57.99
K-600S	Tilt angle SO-239 trnk mt w/cable/SMA	57.99
K-601M	SO-239 hideaway trunk mt, 6' coax ..	69.99
K-601NMO	NMO hideaway trunk mt, 6' coax ..	69.99
C-110	10' extension cable for K-601 mts ..	14.99
K-604M	Tilt angle trunk mt w/flexible cable D	34.99
K-900LRM	Motorized luggage rack mount ..	109.99
K-900TMT	Motorized trunk/hatchback mt	109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA	\$ 69.99
K-515NMO	Lug rack NMO mt; new type SUV/SMA	69.99
K-540	Mirror/luggage rack mt; under 45"	35.99
K-540KM	Mirror/luggage rack mt w/coax	59.99
K-550*	Luggage mt; new mini vans (use GLP)	44.99
K-550KM*	Luggage mt w/SO-239 base/coax	69.99

*K-550 series not recommended for Yae ATAS-100/120

MOUNTING GROUP HARDWARE

C-101	SO-239 mt, 6.5' RG-316 low-loss coax	\$ 32.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax	32.99
C-104SMA	4" RG-58 ext cbl; SMA male & SO-239	16.99
C-105SMA	5' RG-58 ext cable; C-101/SMA male	16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C	14.99
C-110BNC	10' extension cable to BNC male ..	22.99
C-110SMA	10' RG-58 ext cable; C-101/SMA male	22.99
C-211	SO-239 mt, 6.5' coax, 10' coax extend	41.99
C-213	SO-239 mt, 13.5' RG-316 low-loss coax	44.99
C-213NMO	NMO mt, 13.5' RG-316 low-loss coax	41.99
CRM	Stainless steel right angle bracket w/U-bolts	16.99
NMO/UHF	NMO to UHF adapter	12.99
NMO/UHF-B	Black NMO to UHF adapter	13.99

MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5' boom 9db beam	\$ 59.99
KB-144	Side mounting bracket/hardware ..	24.99
A-430S10	430 10 el 43" boom 13db beam	69.99
KB-430	Side mounting bracket/hardware ..	22.99
A-430S15	430 15 el 89" boom 14.8db beam ..	79.99
A-502HB	6m 2 el 2.6' boom 6.3db beam	99.99
A-504HB	6m 4 el 10.7' boom 10.8db beam	139.99
CP-22E	2m 6.5db 9' base antenna	54.99
DP-6HG6	6m 6db 21' base antenna	139.99
F-22A	2m 6.7db 10.5' base antenna	99.99
F-23A	2m 7.8db 15' base antenna	119.99
F-718A	440 11.5db 15' type N base antenna	209.99
F-718L	420-430 11.5db ATV N base ant	169.99
F-1230A	1.2GHz 13.1db 12" N base antenna	169.99
G-200	2.4GHz 11db 6" N base antenna	199.99
2400-Y12	2.4GHz 12db 8el 15"bm 25w N beam	119.99

DUAL-BAND BASE STATION ANTENNAS

U-200	440/1.2GHz 8.3/11.7db 6' N base ant	\$109.99
X-30A	2m/440 3/5.5db 4.5' base antenna	69.99
X-50A	2m/440 4.5/7.2db 5.6' base antenna ..	99.99
X-50NA	2m/440 4.5/7.2db 5.6' base N ant ...	99.99
X-200A	2m/440 6/8db 8.3' base antenna	124.99
X-300A	2m/440 5.5/9db 10.5' base antenna	139.99
X-500HNA	Hvy dty 2m/440 8.3/11.7db 17.8" N ant	239.99
X-510MA	2m/440 8.3/11.7db 17.2" base ant	184.99
X-510NA	2m/440 8.3/11.7db 17.2" type N ant	184.99
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2" N	199.99
X-700HA	2m/440 9.3/13db 24' base ant	349.99
X-700HNA	2m/440 9.3/13db 24' type N ant ..	369.99

TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna	\$ 99.99
D-130NJ	50-1300 MHz 200w N discone ant ..	99.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	162.99
X-3200A	2m/220/440 6/7.8db 10' base	209.99

Diamond - continued AES Price

X-6000A	2m/440/1.2 6.5/9/10db 10.5' N	189.99
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DUPLEXERS & TRIPLEXERS

MX-37	440/1200MHz N/N duplexer w/cable ..	\$ 64.99
MX-62M	HF-6m & 2m/440, 12" cables dplx ..	74.99
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls	54.99
MX-72D	HF-2m/440 400/150/100w duplexer	48.99
MX-72H	HF-2m/440 duplexer w/12" cables ..	49.99
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls	49.99
MX-214D	2m/220 150/100w dplx, no cables	69.99
MX-324	2m/220/440 triplexer	89.99
MX-324D	2m/220/440 triplexer, no cables	84.99
MX-610	HF-6m duplexer; IC-706/FT-100	69.99
MX-2000	HF-6m/2m/440 400/400/250w triplexer	84.99
MX-3000	HF-2m/440/1.2 400/200/100w triplexer	79.99
MX-3000N	HF-2m/440/1.2 400/200/100w triplexer	85.99

ACCESSORIES

CA-23RP	2500MHz 200w N-F/N-M lightning protect	\$ 41.99
CA-23RS	2500MHz 200w N lightning protector	39.99
CA-23WR	2500MHz 200w N waterproof protector	44.99
CA-35R/RS	1000MHz 400w lightning protector	29.99
CA-35RPW	1000MHz 400w waterproof protector	39.99
CX-210A	1.5kw DC-1000MHz coax switch	44.99
CX-210N	1.5kw DC-1500MHz N coax switch ..	74.99
CX-310A	HD 3-pos DC-800MHz coax switch ..	83.99
DL-30A	15/100w peak 0-500MHz dummy load	27.99
DL-30N	15/100w peak 0-500MHz N dummy load	39.99
GZV-4000	Variable 40A switching ps/meter/spkr	179.99

DRAKE (DRA)

R-8B	Shortwave receiver	D 1499.99
MS-8	1592 Speaker	D 59.99
1590	35-55, 108-174 MHz VHF converter D	269.99
7852	R-8B technical manual	D 39.99
1591	Interface computer soft; original R-8 ..	D 99.99

DURACELL (DUR)

9V	9v alkaline battery	\$ 3.49
AA-4	4-pack AA alkaline batteries	3.49

DYNAMITE (DYN)

1000	Dyna-Sport 1500mah 6-cell flat nicad	\$ 16.99
1145	Dyna-Fun 2000mah 6-cell nicad	39.99
4010	Mega 1 AC/DC quick charger	29.99
4046	Vision Peak Plus AC/DC peak charger ..	69.99

ECG (ECG)

U-105	Light duty antenna rotor/3-wire	\$ 69.99
U-106	Light duty ant rotor/presets/R/REM/3-wire	89.99
TB-105	Thrust bearing for U-105/U-106 ..	18.99

EASY-UP (UPS OK) (EAS)

EZ 29-24S	Stainless double strap chimney mt	\$ 22.99
EZ 48-3ABX	3' boxed tripod w/pitch pad kit ..	36.99
EZ 48-5ABX	5' boxed tripod w/pitch pad kit ..	49.99
EZ 5-16	5' 16 ga steel mast	12.99

ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam	\$ 74.99
220-L6	220 6el quick assembly LP beam	64.99
440-L8	440 8el quick assembly LP beam	64.99

EMERSON (EME)

EVO-6550	2nd 900MHz camera; EVO-6500 D	\$ 9.99
PDC-803/PMO-8030	Dig compass/LCD backlit D	29.99
RP-005	6-func flashing safety strobe/reflector	6.99

EXCALIBUR (EXC)

908	Talking electronic chess computer	\$ 49.99
H-422	Large Forever Flashlight (clear case) .	24.99
H-423	Small Forever Flashlight (clear case) .	19.99

GE (GEX)

72887	Super Radio III AM/FM radio; AC/DC ..	\$ 49.99
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AES Price

GAP VERTICALS (GAP)

DX-VIII Challenger 75°/40°/20°/15°/12°/10°/6°/2m 31.5'	\$299.99
*80m CW w/capacitor exchange from GAP	
Challenger Counterpoise	30.99
(SYN) 100' 3/4" black double braided rope	6.99
DX-IV Eagle 40°/20°/17°/15°/12°/10m 21.5' rigid	309.99
DX-IV Voyager 160°/80°/40°/20m 45'; use 350' guy	419.99
Voyager Counterpoise	55.99
(SYN) 350' 3/4" black double braided rope	39.99
Titan DX 75°/40°/30°/20°/17°/15°/12°/10m, 25'	339.99
*80m CW w/capacitor exchange from GAP	
100' Guy Kit with clamp	14.99
200' Guy Kit with clamp	22.99
Ground Mount Quick tilt mt for vertical ant	79.99
Ladder Mount Quick tilt mt; campers/RVs	79.99
Hear It DSP noise eliminating speaker	159.99
In Line Module Hear It in line module noise elim	199.99

GARMIN (GAR)

Geko-101 Small GPS receiver	\$ 99.99
Geko-201 Small GPS receiver w/WAAS	139.99
GPS-12XL GPS receiver	219.99
GPS-72 Handheld track-plotter GPS	149.99
GA-27C Low prof rem ant/cbl; GPS-12CX/XL	89.99
010-10048-00 Mounting bracket; 12CX/XL	29.99
010-10082-00 Power/data cable	27.99
010-10085-00 Cig lighter adapter cable	23.99
010-10117-01 Carrying case	4.99
010-10117-02 Carrying case	12.99
010-10121-00 MCX-BNC adapt cbl; 12CX/XL	25.99
010-10141-00 PC interface cable	38.99
010-10165-00 PC cable w/cig adapter	45.99
GPS-60 GPS w/1MB internal memory	179.99
GPS-MAP60 GPS w/24MB internal memory	299.99
010-10117-02 Carrying case	12.99
010-10111-00 Mtg bracket; GPS-III Plus	17.99
010-10199-03 Carrying case; Street Pilot	2.99
010-10132-00 Carrying case; Street Pilot	4.99
StreetPilot III Deluxe GPS	699.99
GA-26C Low prof remote ant w/cable/BNC	89.99
010-10141-00 PC interface cable	38.99
010-10165-00 PC cable w/cig adapter	45.99
010-10227-00 Blank 8MB mem cartridge D	29.99
StreetPilot 2610 Deluxe GPS	699.99
GA-27C Low profile remote ant/cable/MCX	89.99
StreetPilot C330 Deluxe GPS w/software	899.99
GA-27C Low profile remote ant/cable/MCX	89.99
eTREX 12 ch mini GPS receiver	99.99
eTREX Summit 12ch mini GPS/compass/barometric	179.99
010-10203-00 Cig lighter cbl; eMAP & eTREX	39.99
010-10205-00 Data cable; eMAP & eTREX	22.99
010-10206-00 PC interface cbl; eMAP & eTREX	38.99
010-10215-00 MapSource US road/rec CD	69.99
GPS-V Deluxe Turn-by-turn navigation GPS/soft	299.99
GA-26C Low prof remote ant w/cable/BNC	89.99
010-10082-00 Power/data cable	27.99
010-10117-01 Carrying case	4.99
010-10117-02 Carrying case	12.99
010-10165-00 PC cable w/cig adapter	45.99
010-10468-00 MapSource MetroGuide CD	99.99
c/fQue-1620 GPS module for Pocket PC's	249.99
Foretrex 101 Wrist GPS	129.99
Forerunner 201 Wrist GPS/personal trainer	149.99
GPS-18PC Dix GPS sensor for laptop/serial/mag/soft	129.99
GPS-18USB Dix GPS sensor for laptop/USB/mag/soft	129.99
iQue-3600 Handheld PDA w/integrated GPS	549.99
GA-27C Low prof remote ant/cbl; iQue-3600	89.99
iQue-M5 Pocket PC integrated with GPS	699.99
Rino-120 GPS/FRS/GMRS w/8mb mem/basecamp	249.99
010-10117-02 Carrying case; Rino-120	12.99

AES Price

GEAR KEEPER (GEA)

RT2-4012 Hvy duty Mic Keeper w/snap clip	\$ 19.99
RT3-4653 Locking HT Gear Keeper/swivel belt clip	29.99

GLEN MARTIN (GME)

TOWERS	
M-1330A 30' alum tower package w/Hazer	T 1614.99
M-1340A 40' alum tower package w/Hazer	T 1831.99
M-1350A 50' alum tower package w/Hazer	T 2069.99
M-1840A 40' alum tower package w/Hazer	T 2149.99
M-1850A 50' alum tower package w/Hazer	T 2409.99
M-1860A 60' alum twr pack w/Voyager Hazer	T 3355.99
M-1870A 70' alum twr pack w/Voyager Hazer	T 3659.99
ML-1800 Messenger line kit for GME towers	72.99
KB-1000 57" side arm; M-13 series	81.99
KB-1300 57" side arm; M-18 series	84.99
M-22 10' galv steel M-22 tower section	431.99
CHB-22 Footing assembly for M-22	260.99
B-22 Leveling base for M-22	379.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	\$163.99
RT-832 8' roof-top tower, anodized aluminum	242.99
RT-936 9' roof-top tower, anodized aluminum	396.99
RT-1832 17.5' roof-top tower, anodized aluminum	531.99
RT-2632 26' roof-top tower, anodized aluminum	879.99
LB-3755 Lag bolts, set of 8 3/4" x 5"	9.99
MC-10 Mast clamp; aluminum, 2 required	24.99
EL-3744 Concrete L-bolts, set of 8	14.99
RA-6024 24" side arm for roof towers	41.99
RA-6048 48" side arm for roof towers	54.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	\$360.99
H-3 Standard duty aluminum Hazer system	273.99
H-4 Heavy duty galv steel Hazer system	348.99
BW-8001 Brake winch, for H-2/3/4	80.99
HR-2040 Roller bearing set for Hazers	64.99
HR-6010 T-X plates for H-2/3/4/5	26.99
HS-1301 Side arm for Hazers	64.99
ML-2500 Messenger line kit for Rohn towers	76.99
VH8-60 Voyager Hazer for 60' Rohn 45G	1409.99
VH8-70 Voyager Hazer for 70' Rohn 45G	1544.99
VH9-50 Voyager Hazer for 50' Rohn 55G	1329.99
VH9-60 Voyager Hazer for 60' Rohn 55G	1449.99
VH9-70 Voyager Hazer for 70' Rohn 55G	1564.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	\$ 99.99
GR-4400 Ground rod wire clamp	6.99
GR-5080 8' x 3/8" ground rod	20.99
TL-0470 Terminal lug	2.99
LR-8418 Lightning rod point, 18" long	38.99
LR-8452 Clamp for holding rod to 2" mast	25.99
LR-8451 Clamp for holding rod to 1 1/2" mast	24.99
CW-2540 25' #4 bare copper ground wire	20.99
CW-5040 50' #4 bare copper ground wire	41.99
CW-7540 75' #4 bare copper ground wire	59.99
CW-1040 100' #4 bare copper ground wire	66.99
CW-1240 125' #4 bare copper ground wire	98.99
CW-1540 150' #4 bare copper ground wire	118.99

GUYING

WR-125 1/2" galv 7 x 7 guy cable	per ft. \$ 4.9
WR-380 3/4" galv 7 x 7 guy cable	per ft. .69
WRS-156 3/8" stainless 7 x 19 guy cable per ft.	7.99
WRS-187 3/8" stainless 7 x 19 guy cable per ft.	8.99
WRS-250 1/2" stainless 7 x 19 guy cable per ft.	9.99
WR-1862 1/2" U-bolt clip	1.69
WR-2565 3/4" U-bolt clip	1.69
WR-3164 3/4" U-bolt clip	1.99
PT-2500 1/2" heavy duty thimble	2.69
PT-3100 3/4" heavy duty thimble	2.99
PT-3700 1/2" heavy duty thimble	3.39

Glen Martin - continued AES Price

H-165 1/2" end cap	.79
H-164 3/4" end cap	.89
H-142 3/4" end cap	.99
RG-4010 1/2" link connecting earthscrew to turnbuckle	8.99
ES-40 4" dia x 30" earth screw	22.99
EG-40 4" dia x 30" galvanized earth screw	33.99
ES-60 6" dia x 48" earth screw	39.99
EG-60 6" dia x 48" galvanized earth screw	55.99
ES-80 8" dia x 66" earth screw	68.99
TB-3806 3/4" x 6" galvanized turnbuckle	18.99
TB-5009 1/2" x 9" galvanized turnbuckle	24.99
TB-6212 3/4" x 12" galvanized turnbuckle	41.99

MASTS

M-1049 9' x 2" OD heavy duty galv steel mast	\$ 79.99
M-1040 10' x 2" OD heavy duty galv steel mast	84.99
MA-1040 10' x 1.92" OD medium duty alum mast	94.99
MA-1049 9' x 1.92" OD medium duty alum mast	89.99
MA-2069 9' x 2.375" OD heavy duty alum mast	99.99
MA-1050 5' x 1.92" OD medium duty alum mast	61.99
MA-5050 5' x 1.31" OD light duty alum mast	41.99
MP-1409 9' x 2" OD .250 wall xtra HD fg mast	129.99
MP-1809 9' x 2" OD .125 wall med dy fg mast	76.99

SIDE ARMS

HS-2500 36" universal side arm mount	\$ 65.99
HS-6000 52" universal side arm mount	78.99

WINCHES

B-800 800 lb capacity w/4.5:1 gear ratio	\$ 72.99
B-1100 1100 lb capacity w/3.9:1 gear ratio	42.99
W-2000 2000 lb capacity w/17:1 gear ratio	126.99
WA-1200 4000 lb electric winch, 115 vac	489.99
WD-1200 4000 lb electric winch, 12 vdc	448.99
W-6371 Pendant for 12 vdc	178.99
W-6372 Pendant for 115 vac	102.99

TOWER CLIMBING EQUIPMENT

FP-5600 2 d-ring full body climbing harness (S-M)	\$ 89.99
FP-5601 2 d-ring full body climbing harness (L-XL)	89.99
FP-5602 4 d-ring full body climbing harness (S-M)	106.99
FP-5603 4 d-ring full body climbing harness (L-XL)	106.99
FP-6600 6 d-ring full body climbing harness (XS)	260.99
FP-6601 6 d-ring full body climbing harness (S)	236.99
FP-6602 6 d-ring full body climbing harness (M)	236.99
FP-6603 6 d-ring full body climbing harness (L)	236.99
FP-6604 6 d-ring full body climbing harness (XL)	236.99
FP-7600 AeroClimber 6 d-ring saddle harness (XS)	231.99
FP-7601 AeroClimber 6 d-ring saddle harness (S)	209.99
FP-7602 AeroClimber 6 d-ring saddle harness (M)	209.99
FP-7603 AeroClimber 6 d-ring saddle harness (L)	209.99
FP-7604 AeroClimber 6 d-ring saddle harness (XL)	209.99
FP-2606 1'x6" web lanyard/dbl locking snaphooks	32.99
FP-2903 1'x3" web lanyard, 3/4" throat, snaphooks	38.99
FP-2904 1'x4" web lanyard, 3/4" throat, snaphooks	39.99
FP-2905 1'x5" web lanyard, 3/4" throat, snaphooks	39.99
FP-2906 1'x6" web lanyard, 3/4" throat, snaphooks	40.99
FP-2913 1'x3" web lanyard, 3/8" & 1 1/2" throat openings	63.99
FP-2914 1'x4" web lanyard, 3/8" & 1 1/2" throat openings	64.99
FP-2915 1'x5" web lanyard, 3/8" & 1 1/2" throat openings	64.99
FP-2916 1'x6" web lanyard, 3/8" & 1 1/2" throat openings	65.99
FP-2923 1'x3" web lanyard, 3/8" & 2" throat openings	69.99
FP-2924 1'x4" web lanyard, 3/8" & 2" throat openings	70.99
FP-2925 1'x5" web lanyard, 3/8" & 2" throat openings	70.99
FP-2926 1'x6" web lanyard, 3/8" & 2" throat openings	71.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. There is also a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand. 6% PRICE SURCHARGE AT PRESS TIME ON ALL GME STEEL AND ALUMINUM PRODUCTS

AES Price

GROTHE (GRO)

VS-2	Emergency vehicle siren	\$ 89.99
VS-2LS/A	Window mt siren/amber halogen	299.99
VS-2LS/B	Window mt siren/blue halogen	299.99
VS-2LS/R	Window mt siren/red halogen	299.99
VS-3	Volunteer vehicle PA/horn w/spkr	129.99
VS-4	P/A emergency vehicle siren w/spkr	139.99

GRUNDIG/ETON (GRU)

e-Zone	FM receiver	\$ 4.99
E-1	Portable AM/FM/SW/XM* satellite rcvr/ps	499.99
*Subscription required for XM satellite radio		
E-10	Portable AM/FM/SW receiver w/ps	129.99
E-100	Portable AM/FM/SW receiver	99.99
FR-100	AM/FM/clock/emergency light	29.99
FR-200	AM/FM/SW/flashlight/crank	39.99
FR-300	AM/FM/WX/TV sound/flashlight/cell cgr	49.99
G-2000A	Porsche design AM/FM/SW receiver	79.99
G-4000A	Portable AM/FM/SW receiver w/ps	149.99
MiniWorld 100PE	Mini AM/FM/SW receiver	29.99
S-350	Portable AM/FM/SW receiver w/ps	99.99
Yacht Boy 400PE	Port AM/FM/SW/LW Rcvr/ps	149.99
Yacht Boy 550	Port AM/FM/SW receiver w/ps	79.99

HAL (HAL)

DXP-38	External DSP HF radio modem	\$395.99
RTTY-1	RTTY tuning indicator	99.99

HARGER (HRG)

GBIS18114AE	1/8" copper entrance ground bar kit	\$ 27.99
GBIS18148AE	1/8" copper station ground bar kit	64.99
GE3AE	Package of 5 HD grounding lugs	15.99
GP1868.78AE	1/8" copper single pt gnd panel kit	54.99
GBX976AE	NEMA-4x weatherproof enclosure	89.99

HEIL (HEI)

BM-5-4	Boom mic/single headset (HC-4)	\$ 69.99
BM-5-5	Boom mic/single headset (HC-5)	69.99
BM-5-IC	Boom mic/single headset/adaptor; lcom	86.99
BM-10-4	Boom mic/headset (HC-4)	89.99
BM-10-5	Boom mic/headset (HC-5)	89.99
BM-10-IC	Boom mic/headset/adaptor; lcom	106.99
BAG-2	Leatherette travel bag for BM-10	20.99
PRO-SET-4	Deluxe boom mic/headset (HC-4)	130.99
PRO-SET-5	Deluxe boom mic/headset (HC-5)	130.99
PRO-SET-IC	Dlx boom mic/headset/adaptor; lcom	147.99
PRO-SET-PLUS	Dlx boom mic/headset (HC4&5)	189.99
PRO-SET-PLUS-IC	Dlx boom mic/headset (HC4&5); lco	206.99
PSQP-4	Pro-Set Quiet Phone 4 boom mic/headp	225.99
PSQP-5	Pro-Set Quiet Phone 5 boom mic/headp	225.99
PSQP-IC	Pro-Set Quiet Phone; lcom boom mic/headp	242.99
AD-1-I	Pro-Set 8-pin adapter cord for lcom	17.99
AD-1-ICM/AD-1IM	ProSet mod adapt cord; lco	17.99
AD-1-K	Pro-Set 8-pin adapt cord; Kenwood	17.99
AD-1-K-M	Pro-Set modular adapt cord; Ken	17.99
AD-1-T	Pro-Set 4-pin adapt cord; Ten-Tec	17.99
AD-1-Y	Pro-Set 8-pin adapter cord; Yaesu	17.99
AD-1-Y-M	Pro-Set modular adapt cord; Yae	17.99
Traveler-I8	Boom mic/single headset; lcom 8-pin	89.99
Traveler-706	Boom mic/sgl headset; IC-706/703	89.99
Traveler-K8	Boom mic/single headset; Ken 8-pin	89.99
Traveler-KM	Bm mic/sgl headset; Ken modular	89.99
Traveler-VX	Boom mic/sgl headset; Yae VX HT	89.99
Traveler-YM	Bm mic/sgl headset; FT-817/57/97	89.99
HTA-IHT	Traveler adapter for lcom HT	20.99
HTA-KHT	Traveler adapter for Kenwood HT	20.99
HTA-VX	Traveler adapter; Yae VX HT (not VX7)	20.99
FS-2	Dual switch foot switch	38.99
HS-2	Magnum ergonomic hand switch	29.99
HC-4	DX'er's 'dream machine' mic element	38.99
HC-5	Full-range microphone element	38.99
AD-100	Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	25.99

Heil - continued

ADM-Y817/AD-YM	Mic/bmset adapt; FT817 D	25.99
GM-4	Goldline dual element studio mic w/HC-4	140.99
GM-5	Goldline dual element studio mic w/HC-5	140.99
GM-V	Goldline vintage studio mic/matching xfmr	145.99
HCL-4	Classic 1930's desk mic/studio el & HC-4	229.99
HCL-5	Classic 1930's desk mic/studio el & HC-5	229.99
HM-10-4	Microphone with HC-4 element	65.99
HM-10-5	Microphone with HC-5 element	65.99
HM-10-Dual	Mic w/HC-4 & HC-5 elements	115.99
ICM	Pro-Mic lcom electret mic w/cable	89.99
CC-1-C	1/8" plug cable for Collins/Drake	33.99
CC-1-D	4-pin cable for Drake	30.99
CC-1-I	8-pin cable for lcom	30.99
CC-1-I-M	Modular cable for lcom	30.99
CC-1-K	8-pin cable for Kenwood	30.99
CC-1-K-M	Modular cable for Kenwood	30.99
CC-1-T	Cable for Ten-Tec	30.99
CC-1-Y	8-pin cable for Yaesu	30.99
CC-1-Y-M	Modular cable for Yaesu	30.99
HSTA-706	Adapt; HM-1 - lco 706/703/modular	20.99
PL-2T	Topless proline boom	80.99
DT-1	Desk top flush mount	31.99
FL-1/FL-2	Flange mount for PL-2T	20.99
RS-1	Riser 12" flange mount for PL-2T	25.99
SB-1	Small adjustable mic boom w/C clamp	33.99
SB-2	Small adjustable mic boom	42.99
TB-1	Table base microphone stand	25.99
HM-4	Handi-Mic hand microphone w/HC-4	80.99
HM-5	Handi-Mic hand microphone w/HC-5	80.99
HM-IC	Handi-Mic hand mic/electret element; lco	80.99
HM-PRO	Handi-Mic hand mic/broadcast element	80.99
CH-1-I	8-pin coiled cable for lcom	20.99
CH-1-I-M	Modular coiled cable for lcom	20.99
CH-1-K	8-pin coiled cable for Kenwood	20.99
CH-1-K-M	Modular coiled cable for Kenwood	20.99
CH-1-Y-M	Modular coiled cable for Yaesu	20.99
HQP	Quiet Phone Noise cancelling headphones	99.99
BAG-2	Leatherette travel bag for HQP	20.99
Boom Clip	For BM-series	5.99
CB-1	Classic base	58.99
Ear Pads	for BM-series	5.99
Ear Pads	for PRO-series	6.99
Ham Radio Handbook		10.00
HCS	Clearspeech DSP speaker system	210.99
HD-AT	6db headp attenuator, 1/8"-1/4" adapt	5.99
SM-1	Shock mount for any microphone boom	50.99
TM-1	Trunk mount microphone adapter	14.99
XT-1	Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

Platinum Pack	3.5-60MHz mobile ant w/6' whip	\$495.00
HS-120	Capacity hat	50.00
HS-202CL	2" rcvr lay back adapter; univ mtg bkt	100.00
HS-214CL	1 1/4" rcvr lay back adapter; univ mtg bkt	100.00
Sidekick	3.5-60MHz mobile ant w/3' whip	375.00
Sidekick w/i-box/i-tenna	3.5-60 mob/3' whip; lco	425.00

HobbyZone (HBZ)

5500	Firebird IIST RTF electric airplane	\$ 84.99
1011	6v 600mah NiMH battery	17.99
1026	DC peak charger	19.99
4500	Firebird Outlaw RTF electric red airplane	49.99
4505	Firebird Outlaw RTF electric green airplane	49.99
1026	DC peak charger	19.99
2500	Firebird Commander RTF electric airplane	109.99
3305	Zig Zag Racer RTR electric boat	69.99
3500	Aerobird Challenger RTF electric airplane	149.99
1012	7.2v 900mah NiMH;2500/3305/3500/4000	24.99
1013	8.4v 900mah NiMH;2500/3500/4000	29.99
1026	DC peak charger	19.99
2015	3-hr wall charger for 3305/4000	8.99
4020	Sonic combat module; 2500	23.99

AES Price

HobbyZone - continued

4025	Stealth target/comb module; *2500/4000	19.99
*Requires 4020 w/model 2500		
6023	Aerial drop module; 2500/4000	19.99
7800	Sky Surfer RTF electric airplane	249.99
1026	DC peak charger	19.99
7809	7.2v 1100mah battery for 7800	29.99

HUSTLER (HUS)

RM-80	80m CW 400w PEP resonator	\$ 28.99
RM-75	75m phone 400w PEP resonator	28.99
RM-60	60m phone 400w PEP resonator	28.99
RM-40	40m 400w PEP resonator	26.99
RM-30	30m 400w PEP resonator	26.99
RM-20	20m 400w PEP resonator	23.99
RM-17	17m 400w PEP resonator	23.99
RM-15	15m 400w PEP resonator	16.99
RM-12	12m 400w PEP resonator	16.99
RM-11	CB 400w PEP resonator	16.99
RM-10	10m 400w PEP resonator	16.99
RM-80S	80m CW 2kw PEP resonator	53.99
RM-75S	75m phone 2kw PEP resonator	53.99
RM-40S	40m 2kw PEP resonator	38.99
RM-20S	20m 2kw PEP resonator	30.99
RM-15S	15m 2kw PEP resonator	26.99
RM-11S	CB 2kw PEP resonator	25.99
RM-10S	10m 2kw PEP resonator	25.99
MO-1	54" mast for fender or deck mount	33.99
MO-2	54" mast for bumper mount	33.99
MO-3	54" no break-over mast	25.99
MO-4	22" mast for special applications	21.99
VP-1	Tri-band adapter	6.99
RSS-2	Resonator spring	12.99
QD-2	Stainless quick disconnect	21.99
L-14-144	12' RG-58, PL-259 to lugs	9.99
L-14-240	20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1	Ball & spring, cadmium hardware	\$ 49.99
SSM-2	Ball, cadmium hardware	28.99
SSM-3	Stainless steel spring	26.99

1-1/2" MOBILE BALL MOUNTS

C-32	Chrome plated ball	\$ 12.99
C-30	Chrome plated spring	12.99
C-29	Stainless steel spring	19.99
BM-1	Single strap bumper mt w/C-32	23.99

3/8-24 THREAD MOBILE MOUNTS

HLM	Trunk lip mount w/swivel	\$ 24.99
HOT	Hustloff trunk lip mt w/swivel	25.99
MBM	Super magnet mount w/16' coax	21.99
RVM	Recreational vehicle mount	22.99
TLM	Trunk lip mount	23.99

HF ANTENNAS

4-BTV	40/20/15/10m 21' trap vertical	\$129.99
5-BTV	80/40/20/15/10m 25' trap vertical	159.99
30-MTK	30m trap kit for 4-BTV/5-BTV	45.99
6-BTV	80/40/30/20/15/10m 24' trap vert	189.99

VHF/UHF BASE STATION ANTENNAS

G3-144	2m 3db 7.5' vertical antenna	\$ 70.99
G6-144B	2m 6db 10' vertical antenna	119.99
G6-270R	2m/440 6db 7.6' base station ant	169.99
G7-144	2m 7db 15' vertical antenna	169.99
G7-220	220 MHz 7db 10' vertical antenna	159.99
G6-440	440 MHz 6db 7' vertical antenna	149.99

VHF/UHF MOBILE ANTENNAS

B8G-144	2m 3.4db NMO coil/whip only	\$ 39.99
B8G-144	2m 3.4db NMO trunk lip mt ant	49.99
B8G-440-5	440 5db NMO coil/whip only	39.99
B8G-440-5	440 5db NMO trunk lip mt ant	49.99
BBL-144A	2m 3/4" hole mt antenna, 3.4db ..D	34.99
BBLT-144A	2m trunk lip mt ant, 3.4db ..D	39.99
C6-144	2m 3/4-24 ant, 7' high, 5.2db	34.99
CGT-144	2m trunk mt ant, 7' high, 5.2db	55.99

Hustler - continued

AES Price

CG-220 220 MHz ¼-24 ant, 5.2db	34.99
CGT-220 220 trunk mt ant, 5.2db	55.99
LMB-144 2m 3.4db black NMO coil/whip only	22.99
LMB-440 5 440 5db black NMO coil/whip only	19.99
LMC-144 2m 3.4db NMO coil/whip only	23.99
LMC-270 2m/440 2.4/4db NMO coil/whip only	31.99
LMC-440-5 440 5db NMO coil/whip only	19.99
LMG-144 2m 3.4db NMO pushpin coil/whip only	25.99
LMG-440-5 440 5db NMO pushpin coil/whip only	19.99
MKR-2 Radial kit for CG/RX/SF-antennas	22.99
MX-2 2m 3.4db black & chrome NMO mag ant	34.99
MX-2B 2m 3.4db all black NMO mag mt ant	39.99
MX-220 220 3.4db blk & chrome NMO mag ant	34.99
MX-270 2m/440 2.4/4db chrome NMO mag mt ant	59.99
MX-440 440 5db blk & chrome NMO mag mt ant	36.99
MX-440B 440 5db all black NMO mag mt ant	39.99
RX-2 2m 3.4db magnetic mount ant	26.99
RX-220 220 3.4db magnetic mt antenna	26.99
RX-440 440 5db magnetic mt antenna	26.99
SF-2 2m ¼-24 ant, 4' high, 3.4 db	16.99
SF-220 220 MHz ¼-24 antenna, 3.4 db	16.99
THF 140-500 MHz ¼ wave trunk mount ant ..	24.99
UGM 140-500 MHz ¼ wave BNC mag mt ant ..	23.99
UHT-1 140-500 MHz ¼ wave roof mt ant	15.99

CB & MONITOR ANTENNAS

1C-11 White trunk mount CB antenna	\$ 13.99
1C-11B Black trunk mt CB antenna	13.99
1C-56 102" stainless whip	pick-up only 19.99
1C-100 White magnetic mount CB antenna	19.99
1C-100B Black magnetic mt CB antenna	19.99
DTG 25" fg double-talk gutter mt CB ant	29.99
FG-27S 48" CB whip	11.99
HQ-27 Power Packer ¼-24 CB whip	17.99
HQ-27R Power Packer trunk mt CB antenna	36.99
HQD Dual fg mirror mount CB antenna	49.99
HQT Single fg mirror mount CB antenna	27.99
RQM Magnetic mount CB antenna	19.99
RTG-27L 25" CB antenna w/rain gutter mt	26.99
RTM 25" magnetic mount CB antenna	16.99
RTS-27L 25" CB antenna w/roof mount	26.99
SCB/BLK 46" black CB whip	29.99
SCB/BLU 46" blue CB whip	19.99
SCB/RED 46" red CB whip	29.99
SCB/WHY 46" white CB whip	29.99
SCB-S/BLK 35" black CB whip	29.99
SCB-S/RED 35" red CB whip	29.99
SCB-S/WHY 35" white CB whip	29.99
DCL-B Disccone monitor ant/50' coax/BNC plug	37.99
DCX Disccone monitor ant; 40-700 MHz	25.99
MOR-B Roof/deck mt tri-band BNC monitor ant ..	20.99
MOT-B Trunk lip mt tri-band BNC monitor ant ..	21.99
MRM-B Magnet mt tri-band BNC monitor ant ..	21.99

HY-GAIN (HYG)

HF BEAM ANTENNAS

LJ-103BA 3el 7.9db 8' boom 10m beam	\$159.99
LJ-105CA 5el 10.8db 24' boom 10m beam	289.99
LJ-153BA 3el 7.9db 12' boom 15m beam	209.99
LJ-204BA 4el 8.2db 26' boom 20 or 17m beam	539.99
TH-3JRS 3el 600w PEP 20/15/10m beam	359.99
TH-3MK4 3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2 5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX 7el 8.7db 24' boom 20/15/10m beam	799.99
BN-86 3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ 40/20/15/10m 18" vertical ant	\$169.99
AV-18AVQ II 80/40/20/15/10m vertical ant ..	229.99
AV-18HT HyTower 80/40/20/15/10m 53" vert T*	849.99
AV-620 20/17/15/12/10/6m 22.5' vertical	269.99
W-640 40/30/20/17/15/12/10/6m 25.5' vert ..	359.99
DX-88 80/40/30/20/17/15/12/10m 25' vert ..	369.99

Hy-Gain - continued

AES Price

*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

VHF/UHF ANTENNAS

DB-218SAT VHF/UHF Oscar Link system	\$499.99
VB-25FM 5el 11.2db 75" boom 2m beam	59.99
VB-64DX 4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40 3 sq ft antenna rotor/5-wire	\$269.99
CD-45-II 8.5 sq ft antenna rotor/8-wire	369.99
HAM-IV 15 sq ft antenna rotor/8-wire	529.99
HAM-V Digital 15 sq ft antenna rotor/8-wire	899.99
HDR-300A Hvy duty dig 25 sq ft rotor/8-wire	1229.99
T-2X Tailtwister 20 sq ft antenna rotor/8-wire	619.99
T-2XD Tailtwister dig 20 sq ft ant rotor/8-wire	979.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1 Dig rotor control; CD-45/HAM-IV/T-2X	\$569.99
MSHD Lwr mast support; HAM-IV/V-T-2X/D	99.99
MSLD Lower mast support; CD-45-II/AR-40	39.99
TSP-1 Tower spacer plate	34.99

See BELDEN for rotor cable

iBOTZ (IBO)

MR-1001 Soundtracker robot kit	\$ 29.99
MR-1002 Antoid robot kit	49.99

IBS (IBS)

2005 2005 Passport to Worldband Radio	\$ 22.95
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ICC (ICC)

Nitelogger II Automatic tape recorder activator	\$ 69.99
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ICOM (ICO)

UT-66 Voice synthesizer; IC-7750SP	\$ 69.99
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IC-7800 Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps	10599.99
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FREE Rack Jacket from Icom Limited Time!

CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filter	239.99
SP-23 Speaker w/audio filter	189.99

IC-756PRO III Xcvr/Rcvr/6m/IF-DSP/tuner/kyr	2999.99
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(BET) I-Mate Msg acc; 746PRO/756PRO II/III	74.99
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PS-125 25A switching power supply	299.99
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AH-4 80-6m 120w auto wire ant tuner	259.99
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AH-2B Whip w/mt; 40-6m use tuner	299.99
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AH-2B extra whip only	117.99
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CT-17 CI-V level converter	129.99
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HM-36 Scanning hand mic	74.99
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OPC-025D Extra DC cable	29.99
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SM-6 Desk microphone	99.99
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SM-20 Deluxe desk microphone	199.99
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SP-20 Speaker w/audio filter	239.99
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SP-23 Speaker w/audio filter	189.99
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UT-102 Voice synthesizer	74.99
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IC-746PRO Xcvr/Rcvr/6m/2m/IF-DSP/tuner/mic	Call/Web
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PS-125 ps FREE with IC-746PRO! thru 6/30/05	74.99
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(BET) I-Mate Msg acc; 746PRO/756PRO II/III	74.99
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PS-125 25A switching power supply	299.99
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AH-4 80-6m 120w auto wire ant tuner	259.99
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AH-2B Whip w/mt; 40-6m use tuner	299.99
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AH-2B extra whip only	117.99
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CR-338 High stability crystal unit	81.99
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CT-17 CI-V level converter	129.99
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HM-36 Scanning hand mic	74.99
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OPC-025D Extra DC cable	29.99
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Icom - continued

AES Price

SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filter	239.99
SP-23 Speaker w/audio filter	189.99
UT-102 Voice synthesizer	74.99

IC-718 HF Xcvr/SW Rcvr/mic	Call/Web
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UT-106 DSP FREE with IC-718! thru 6/30/05	32.99
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(BET) 706 Tune Control for IC-718	32.99
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PS-125 25A switching power supply	299.99
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AH-4 80-6m 120w auto wire ant tuner	259.99
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AH-2B Whip w/mt; 40-6m use tuner	299.99
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AH-2B extra whip only	117.99
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AT-180 Auto coax antenna tuner; HF+6m ..	369.99
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OPC-598 23' extension cable for AT-180	69.99
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CR-338 High stability crystal unit	81.99
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CT-17 CI-V level converter	129.99
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FL-52A 500 Hz 455 KHz IF CW filter	179.99
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FL-53A 250 Hz 455 KHz IF CW filter	179.99
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FL-96 2.8 KHz 455 KHz IF SSB filter	139.99
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FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
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FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
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Suggest dealer installation of filters in IC-718

MB-5 Mobile mount	59.99
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MB-23 Side mount carrying handle	15.99
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OPC-025D Extra DC cable	29.99
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SM-6 Desk microphone	99.99
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SM-20 Deluxe desk microphone	199.99
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SP-7 Small external speaker	94.99
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SP-20 Speaker w/audio filter	239.99
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SP-23 Speaker w/audio filter	189.99
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UT-102 Voice synthesizer	74.99
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UT-106 Plug-in DSP	139.99
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IC-703 Plus 10w mini HF+6m Xcvr/tuner/DSP	Call/Web
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AH-4 80-6m 120w auto wire ant tuner	259.99
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AH-2B Whip w/mt; 40-6m use tuner	299.99
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AH-2B extra whip only	117.99
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AH-703 40/20/15/10/6m 20w 4.6' antenna	199.99
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BC-155A Battery charger for BP-228	29.99
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BP-228 9.6v 2800mah external nicad pack	89.99
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CT-17 CI-V level converter	129.99
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FL-52A 500 Hz 455 KHz IF CW filter	179.99
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FL-53A 250 Hz 455 KHz IF CW filter	179.99
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FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
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FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
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Suggest dealer installation of filters in IC-703 series

HM-118TN TTP microphone	59.99
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LC-156 Back pack carrying case	89.99
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MB-62 Mounting bracket for main unit	25.99
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MB-65 Mounting bracket for control panel	18.99
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MB-65 Mounting base platform	35.99
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MB-72 Carrying handle	14.99
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OPC-581 11.5' separation cable	60.99
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OPC-587 16' separation cable	79.99
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OPC-599 7+8-pin to 13-pin adapter	60.99
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OPC-742 13-pin cable	59.99
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OPC-1229 Extra DC cable	28.99
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OPC-1248 IC-703 to PS-125 cable	14.99
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RMK-706 Package; MB-62/MB-63/OPC-581	70.99
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SM-6 Desk microphone	99.99
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SM-20 Deluxe desk microphone	199.99
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OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
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SP-7 Small external speaker	94.99
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SP-10 Slim-line external speaker	69.99
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UT-102 Voice synthesizer	74.99
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IC-706 Mk II-G Mini Xcvr/Rcvr/6m/2m/440/DSP	949.99
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RMK-706 FREE with IC-706 Mk II-G! thru 6/30/05	32.99
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(BET) 706 Tune Control for IC-706 series ..	149.99
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(W4R) Antenna Boss II interface; mot ant/IC706 ..	299.99
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PS-125 25A switching power supply	299.99
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AH-4 80-6m 120w auto wire ant tuner	259.99
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AH-2B Whip w/mt; 40-6m use tuner	299.99
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AH-2B extra whip only	117.99
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Icom - continued

AES Price

AT-180 Auto coax antenna tuner; HF+6m	369.99
OPC-598 23' extension cable for AT-180	69.99
CR-282 High stability crystal unit; Mk II G	149.99
Suggest dealer install; CR-282, IC-706 Mk II-G	
CT-17 CI-V level converter	129.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-223 1.9 KHz 9 MHz IF SSB filter	89.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
HM-118TN TTP microphone	59.99
LC-156 Back pack carrying case	89.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	35.99
MB-72 Carrying handle; Mk II-G only	14.99
OPC-025D Extra DC cable	29.99
OPC-581 11.5' separation cable	60.99
OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	59.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
SP-7 Small external speaker	94.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax	269.99
PW-1 160-15+6m linear amplifier/ps/tuner	Call/Web
OPC-137 Adapter cable; older Icom Xcvr	19.99
UT-30 Tone encoder; IC-707	49.99

RECEIVERS

R-5-06 .15M-1.3G AM/FM hand/batts/cgr/cell bkld	\$199.99
R-5-11* .5MHz-1.3GHz AM/FM hand Rcvr	199.99
AD-925MA SMA-BNC adapter	16.99
CP-18A Cig lighter cable	30.99
CS-R5 Win programming software	40.99
OPC-474 Cloning cable (R-5 to R-5)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HP-4 Lightweight headphones	29.99
LC-146A Carrying case	24.99
SP-13 Earphone	4.99
R-3-26 .5M-2.45G AM/FM/TV hand Rcvr/cell bkld	349.99
R-3-27* .5MHz-2.45GHz AM/FM/TV hand Rcvr	489.99
BC-135 Desktop charger w/adaptor cup	80.99
BP-206 Extra 3.7v 1650mah lith ion batt	63.99
CP-18A Cig lighter cable	30.99
CS-R3 Win programming software	24.99
OPC-474 Cloning cable (R-3 to R-3)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HP-4 Lightweight headphones	29.99
LC-151 Carrying case	24.99
SP-13 Earphone	4.99
R-10-05 .5M-1.3G AM/FM/SSB hand/cell bkld	299.99
R-10-15* .5MHz-1.3GHz AM/FM/SSB HH Rcvr	299.99
CP-12L Right angle cig cable w/filter	36.99
CS-R10 DOS programming software; R-10	13.99
OPC-474 Cloning cable (R-10 to R-10)	18.99
OPC-478 PC RS-232C cable	45.99
CSW-HHRX Win prog soft/cable; R-10/R-2	50.99
CT-17 CI-V level converter	149.99
HP-4 Lightweight headphones	29.99
LC-140 Carrying case for R-10	38.99
OPC-254L Right angle mini DC pwr cable	14.99
SP-13 Earphone	4.99
R-20-06 150KHz-3.3GHz handheld Rcvr/cell bkld	519.99
R-20-11* 150KHz-3.3GHz handheld Rcvr	519.99
BC-156-02 Desktop charger	80.99

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AES Price

BP-206 Extra 3.7v 1650mah lith ion batt	63.99
CP-18A Cig lighter cable	30.99
CS-R20 Cloning software/USB cable; R-20	56.99
CT-17 CI-V level converter	129.99
LC-158 Carrying case	29.99
MB-86 Swivel belt clip	9.99
SP-13 Earphone	4.99
PCR-1000-02 BON PC Rcvr/software/cell bkld	499.99
PCR-1000-07 BON* PC Rcvr/software	499.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
OPC-131 DC power cord	13.99
SP-7 Small external speaker	94.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
BON CS-40 Bonito soft; PCR-1000-02/07	68.99
CS-R2 DOS programming software; R-2	99
R-75 03-60 MHz shortwave receiver w/DSP	Call/Web
CR-282 High stability crystal unit	149.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-96 2.8 KHz 455 KHz IF SSB filter	139.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-223 1.9 KHz 9 MHz IF SSB filter	89.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
OPC-869 DC cable	49.99
RS-R75 PC control software w/RS-232 cable	80.99
SP-23 Speaker w/audio filter	189.99
UT-102 Voice synthesizer	74.99
R-8500-02 .1M - 2G receiver/cell blocked	D 1579.99
R-8500-04* .1MHz - 2GHz receiver	1579.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CR-293 High stability xtal unit	279.99
FL-52A 500 Hz CW filter	179.99
MB-12 Mobile mount	39.99
MB-23 Side mount carrying handle	15.99
RS-R8500 PC control soft w/RS-232 cable	80.99
SP-7 Small external speaker	94.99
SP-23 Speaker w/audio filter	189.99
UT-102 Voice synthesizer	74.99

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of R-3/R-5/R-10/R-20/PCR-1000/R-8500 for official government or communications utility company use only. Mail or FAX purchase order to AES. Exports: inquire.

UT-101 DTMF unit for IC-2000H	D \$28.99
IC-2100H-25N 50w 2m FM Xcvr/NEW TTP mic	Call/Web
CS-2100 DOS cloning software	13.99
OPC-478 PC RS-232C cable	45.99
CSW-2100 Win prog soft/cable; IC-2100H	50.99
HM-90A Wireless microphone	99.99
BC-96 Wireless microphone holder	29.99
EX-1759 Infrared receiver	89.99
HM-133S Extra TTP mic; 2100H/2100H25N	90.99
MB-17A Quick release bracket	49.99
MB-28H Extra mobile bracket	26.99
OPC-346 Extra 9.8' DC cable	28.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-647 8.2' mic extension cable	54.99

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AES Price

SP-10 Slim-line external speaker	69.99
IC-2200H 65w 2m FM Xcvr	229.99
CS-2200H Windows cloning software	80.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-647 8.2' mic extension cable	54.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V8000 75w 2m FM Xcvr w/WX alert/scan	Call/Web
CS-V8000 Windows cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-647 8.2' mic extension cable	54.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
V8000-MMB Extra mobile bracket	26.99
CSW-207/2710 Win cloning soft; 207/2710	29.99
OPC-601 23' separation cable; IC-207H	59.99
OPC-646 Prog cbl; CS-207/CSW-207/2710	79.99
UT-89 Tone scan/decode unit; IC-2350H	89.99
UT-104 Tone squelch unit; IC-2710H	39.99
IC-208H 55w 2m/50w 440 FM Xcvr	Call/Web
CS-208 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-58 Remote controller bracket	39.99
MB-65 Mounting base platform	35.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-601R 23' separation cable	67.99
OPC-647 8.2' mic extension cable	54.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
IC-2720H 50w 2m/35w 440 FM Xcvr	Call/Web
CS-2720 Win/DOS cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-84 Extra remote controller bracket	18.99
MB-65 Mounting base platform	35.99
MB-85 Combination bracket	25.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-647 8.2' mic extension cable	54.99
OPC-1132 9.8' DC cable	28.99
OPC-1156 11.5' separation cable	26.99
SP-10 Slim-line external speaker	69.99
CS-2800 Windows cloning software; 2800H	12.99
OPC-872 Controller extension cable; 2800H	14.99
UT-84 Tone squelch unit; IC-2700H/821H	79.99

Icom - continued**AES Price**

IC-910H 100w 2m/75w 430 FM/SSB Xcvr ...	Call/Web
PS-125 25A switching power supply	299.99
AG-25 2m mast mounted GaSfET preamp	159.99
AG-35 430 MHz mast mounted preamp	169.99
AG-1200 1.2 GHz mast mt preamp	159.99
AG-2400 2.4GHz mast mt down converter ..	499.99
CR-293 High stability xtal unit	279.99
CT-17 CI-V level converter	129.99
FL-132 500 Hz main Rcvr CW filter	119.99
FL-133 500 Hz sub band Rcvr CW filter	119.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
SM-20 Deluxe desk microphone	199.99
SP-7 Small external speaker	94.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit (one per band)	139.99
UX-910 10w 1.2GHz module	499.99
ID-1 10w 1.2GHz FM/128K analog/digital Xcvr ..	1349.99
MB-17A Quick release bracket	49.99
OPC-440 16.4" mic extension cable	85.99
OPC-647 8.2" mic extension cable	54.99
SP-10 Slim-line external speaker	69.99
ID-800 55w 2m/50w 440 FM analog/dig Xcvr ..	629.99
MB-17A Quick release bracket	49.99
OPC-347 23" DC cable	46.99
OPC-440 16.4" mic extension cable	85.99
OPC-441 16.4" speaker extension cable	33.99
OPC-478U PC USB cable	60.99
OPC-601R 23" separation cable	67.99
OPC-647 8.2" mic extension cable	54.99
OPC-1132 9.8" DC cable	28.99
SP-10 Slim-line external speaker	69.99

D-STAR ANTENNAS & REPEATERS

AH-1080 10GHz parabola ant ...special order	1099.99
AH-1415 1.2GHz colinear ant ...special order	2169.99
ID-RP2C Repeater controller ...special order	1459.99
ID-RP2D 1.2GHz data repeater ...special order	1112.99
ID-RP2C/2D Rptr controller/data rptr spec order	2297.99
ID-RP2L 10GHz backbone rptr ...special order	5209.99
ID-RP2V 1.2GHz voice repeater ...special order	3299.99
ID-RP2C/2V Rptr controller/voice rptr spec order	4255.99
ID-RP2D/V Complete DV rptr package spec order	5246.99
ID-RP2D/V+Link DV+link rptr pack spec order	9904.99

Accessories for IC-2AT

BM-112U/BC-16U Wall cgr; 5A/7.8 only ...Δ	\$ 26.99
BP-4 Alkaline battery case	35.99
CP-1 Cig cgr; BP-3/7/8/DC cord	24.99
CP-11 Cig cord w/noise filter	39.99
DC-1 DC operation module	39.99

IC-T2H Sport 6w 2m FM HT/battery holder . Call/Web

AD-81 Batt pack adapter for rapid charger	17.99
BC-110A/BC-74 Extra wall charger	40.99
BC-119-N01 Desk charger (adapter required) ..	84.99
BC-133 Drop-in trickle charger	39.99
BC-122A AC adapter for BC-133	16.99
BP-194 AA alkaline battery case	18.99
BP-195 9.6v 700mah nicad battery	42.99
BP-196 9.6v 1050mah nicad battery	53.99
CP-12L Rt angle cig charge cable w/filter	36.99
CP-17L Right angle cig cable for charger	24.99
CS-T2 DOS prog software for IC-T2	13.99
OPC-474 Cloning cable (T2 to T2)	18.99
OPC-478 PC RS-232C cable	45.99
CSW-HH4 Windows prog soft w/cable; T2 ..	50.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Hvy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip ..	38.99
HS-51 Headset w/VOX	96.99

Icom - continued**AES Price**

HS-94 Ear-piece style headset; use w/VS-1 ..	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-145 Carrying case for IC-T2	38.99
LCF3 Swivel Leather case with swivel	50.99
MB-68 Extra standard belt clip	5.99
MB-74N Spring loaded belt clip	12.99
MB-87 Swivel belt clip	9.99
OPC-254L Right angle mini DC chg cable ..	14.99
SP-13 Earphone	4.99
IC-V8 5.5w 2m FM HT/batt/cgr/TTP	Call/Web
BC-119-N01 Desk charger (adapter required) ..	84.99
AD-94-11 Adapter cup; BC-119-N01	17.99
AD-101 Batt adapter; BP-211/BC-119-N01 ..	25.99
BC-144-01/21/N51 Desk cgr/adapt; not N-series	79.99
BC-144N Rapid desk charger	89.99
BP-208N Battery case	18.99
BP-209 7.2v 1100mah 5.5w battery	53.99
BP-209N 7.2v 1100mah 5.5w battery	53.99
BP-210 7.2v 1650mah 5.5w battery	80.99
BP-210N 7.2v 1650mah 5.5w battery	80.99
BP-211 7.4v 1800mah lith ion battery	89.99
BP-211N 7.4v 1800mah lith ion battery	91.99
BP-222 7.2v 600mah 5.5w battery	35.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CP-17L Right angle cig cable for charger ..	24.99
CS-V8 Cloning software for IC-V8	35.99
OPC-474 Cloning cable (V8 to V8)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HM-46L Slim-line spkr/mic, rt angle plug	45.99
HM-54 Hvy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-131L Rt angle spkr/mic/earph jack/revolv clip	38.99
HS-51 Headset w/VOX	96.99
HS-94 Ear-piece style headset; use w/VS-1L ..	24.99
VS-1L Right angle VOX-PTT unit for HS-94 ..	42.99
LCF3 Swivel Leather case with swivel	50.99
MB-68 Extra standard belt clip	5.99
MB-74N Spring loaded belt clip; orig batts ..	12.99
MB-103 Spring loaded belt clip; N-series batts	12.99
MB-87 Swivel belt clip	9.99
OPC-515L Right angle DC cord for charger ..	20.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-V82 7w 2m FM HT/battery/charger	209.99
IC-V82 5w 440 FM HT/batt/cgr .special order	209.99
BC-144N Rapid desk charger	89.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	53.99
BP-210N 7.2v 1650mah 5.5w battery	80.99
BP-211N 7.4v 1800mah lith ion battery	91.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CS-V82 Cloning software for IC-V82/U82 ..	40.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-131L Rt angle spkr/mic/earph jack/revolv clip	38.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L ..	24.99
VS-1L Right angle VOX-PTT unit for HS-94 ..	42.99
MB-86 Swivel belt clip	9.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V73H 6w 2m/440 FM HT/batt/cgr/TTP	219.99
IC-V73H 5w 2m/440 FM HT/batt/cgr/TTP	289.99
AD-51 Batt pack adapt; W32A/rapid cgr	9.99

Icom - continued**AES Price**

AD-56 Batt pack adapt; T7H/T22A/rapid cgr ..	18.99
BC-119-N11 Nicad/NiMH desk cgr (adapt required)	89.99
BP-170 Battery case	35.99
BP-172 4.8v 950mah battery	91.99
BP-173 9.6v 600mah battery	99.99
BP-180 7.2v 600mah battery	83.99
CP-12 Cig lighter cable w/filter	36.99
CP-12L Right angle cig cable w/filter	36.99
CS-T7 DOS prog software for IC-T7H	13.99
CSW-32 DOS prog software for IC-W32A	13.99
OPC-474 Cloning cable W32A to W32A ..	18.99
OPC-478 PC RS-232C cable	45.99
CSW-HH4 Windows prog soft/cbl; T7H/W32A ..	50.99
FA-1443B Extra 2m/440 dual band duck ..Δ	29.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip ..	38.99
HS-10 Boom mic/headset	69.99
HS-10SA VOX unit	69.99
HS-10SB PTT switchbox	69.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-128 Vinyl case; IC-W32A	38.99
LC-136 Vinyl case; T7H w/BP170/L171/L72 ..	38.99
LC-137 Vinyl case; T7H w/BP173/L180	38.99
NCP-1 Nylon chest pack	39.99
OPC-254 Mini DC power cable	14.99
OPC-254L Right angle mini DC pwr cable ..	14.99
SP-13 Earphone	4.99
AD-87 Batt pack adapter; rapid cgr; T81A	8.99
AD-88 PCB board; original BC-119-11	Δ 29.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt; T81A	Δ 89.99
BC-127A Extra nicad charger; IC-Q7	Δ 9.99
BP-197 Battery case for 3 AA; IC-T81A	Δ 24.99
BP-198 4.8v 700mah NiMH batt; IC-T81A	Δ 34.99
BP-199 6v 700mah NiMH battery; IC-T81A	Δ 49.99
BP-200L 9.6v 760mah NiMH battery; T81A ..	Δ 79.99
CS-T81 Windows cloning soft; IC-T81A	Δ 13.99
LC-148 Carrying case; IC-T81A	Δ 14.99
OPC-782 Plug adapt cbl; HM46/HS85/SP13; Q7 ..	Δ 16.99
IC-T90A 5w 6m/2m/440 HT/batt/cgr/lith	Call/Web
AD-92SMA SMA-BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
CS-T90A Windows cloning software; IC-T90A ..	35.99
OPC-474 Cloning cable (radio to radio) ..	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable (Win XP only) ..	60.99
HM-46 Slim-line speaker/mic	45.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip ..	38.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-152A Carrying case	24.99
MB-83 Swivel belt clip	9.99
SP-13 Earphone	4.99

Accessories for IC-2SAT/2SRA/24AT/W2A

AH-20 Replacement rcv ant; IC-2SRA	Δ \$ 16.99
BP-83 7.2v 600mah battery	Δ 79.99
BP-84 7.2v 1000mah battery	Δ 99.99
BP-90 AA alkaline battery case	Δ 35.99
AD-28 Batt pack adapt for rapid cgr; 2GXAT ..	Δ 18.99
AD-44 Batt adapter; rapid cgr; T21A	Δ 29
BP-130A Battery case; 2GXAT	Δ 35.99

Icom - continued

BP-157A	7.2v 900mah battery; 2GXAT	79.99
BP-174	12v 600mah battery; 2GXAT	69.99

ACCESSORIES

AG-25	2m mast mounted GaSfET preamp	\$159.99
AG-35	430 MHz mast mounted preamp	169.99
AG-1200	1.2 GHz mast mt preamp	159.99
CT-17	CI-V level converter	129.99
HM-12	Scan hand microphone	74.99
MB-23	Side mount carrying handle	15.99
OPC-137	Adapter cable; older Icom Xcvt	19.99
PS-125	25A switching power supply	299.99
SM-6	Electret desk microphone	99.99
SM-20	Deluxe desk microphone	199.99
SP-5	Mobile speaker	39.99
SP-7	Small external speaker	94.99
SP-10	Slim-line external speaker	69.99
SP-20	Speaker w/audio filter	239.99
SP-23	Speaker w/audio filter	189.99

Comic Book 1 The Adventure Begins (Zack & Max)

Comic Book 2 Lost in Seattle (Zack & Max)

CONSUMER ELECTRONICS

A-23	5w compact Navicom air handheld	\$329.99
IC-M1V	Waterproof 5w VHF marine handheld	199.99
IC-M32	Waterproof 5w VHF marine handheld	149.99
IC-M302W02	White waterproof 25w VHF marine	159.99
IC-M402W02	White waterproof 25w VHF marine	199.99
M-710 (21)	150w HF marine SSB spec order	1399.99
AT-130	HF marine auto ant tuner spec order	449.99
M-802	150w DSP marine SSB Xcvt spec order	1749.99
IC-4088A	Dlx family radio service handheld	89.99
BP-202	Nicad battery; IC-4088A/4088A	17.99
CP-18A	Cig lighter cable	30.99
HM-46	Slim-line speaker/mic	45.99
HM-75A	Remote control microphone	70.99
HM-128	Earphone+microphone	25.99
HM-131	Spkr/mic/earphon jack/revolving clip	38.99
HS-51	Headset w/VOX	96.99
HS-85	Headset w/VOX	89.99
HS-94	Ear-piece style headset; use w/VS-1L	24.99
VS-1	VOX-PTT unit for HS-94	42.99
IC-F21-GM	15 ch 4w GMRS/FRS handheld	149.99

IDIDOM PRESS (IDI)

K-3	Logikey CW keyer	\$129.99
HK-3	Hook-up kit	10.99

International Ant (IAC)

80m double Bazooka	Shorty 84' antenna	\$139.99
40m double Bazooka	Shorty 40' antenna	99.99
160m-S	160m half sloper 127' antenna	99.99
80m-S	80m half sloper 67' antenna	79.99
40m-S	40m half sloper 33' antenna	49.99

IRON HORSE (See ATOC)

ISOTRON (ISO)

160C	160m 9.5' x 16" x 15" 100 KHz bandwidth ant	\$173.99
80	80m 32" x 16" x 15" 110 KHz bandwidth ant	98.99
40	40m 22" x 16" x 15" 250 KHz bandwidth ant	88.99
20	20m 21" x 8" x 4" 350 KHz bandwidth ant	78.99
15	15m 21" x 1.5" x 4" 450 KHz bandwidth ant	78.99
10	10m 16" x 1.5" x 4" 1 MHz bandwidth ant	78.99
6	6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant	78.99
80/40	Combo* 80/40m 32" x 16" x 30" ant	177.99
*Requires coaxial "T"s & jumpers - not included		
20/15/10	Combo 20/15/20m combo ant	198.99

JR (JRP)

312725	XS3 synth FM psta1V-Z590W1-Z270 75MHz	\$329.99
SP-100	SC-1 fwd/rev speed control	64.99

AES Price

K-COM (KCO)

RF-1	Modular telephone 3-30 MHz RFI filter	\$ 16.99
RF-1/Low	Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line	2-line modular 3-30 MHz RFI filter	22.99
RF-1/coiled	Coiled cord modular 3-30MHz filter	22.99
RF-2	Hard-wired telephone 3-30 MHz RFI filter	10.99
RF-2/Low	Hard-wired phone .5-3 MHz RFI filter	10.99

KANTRONICS (KAN)

KPC-3 Plus/128K	Small packet TNC/128K RAM	\$198.99
KPC-9612 Plus/128K	9600 controller/128K	388.99
(CSS) Pacterm for Windows	Soft; Kan TNCs	99.99
12VDC Adapter	300ma adaptor; KPC-3	12.99
APRS adapter cable;	GPS to Kantronics TNC	32.99
Host Master II+	IBM software	79.99
KAM 98	Single port multi-mode dig controller	449.99
(CSS) Pacterm for Windows	Soft; Kan TNCs	99.99
12VDC Adapter	300ma adaptor; KAM 98	12.99
APRS adapter cable;	GPS to Kantronics TNC	32.99
KAM XL	All mode TNC w/DSP modems	409.99
(CSS) Pacterm for Windows	Soft; Kan TNCs	99.99
12VDC Adapter	300ma adaptor; KAM XL	12.99
APRS adapter cable;	GPS to Kantronics TNC	32.99

KENWOOD (KEN)

DRU-2	Dig recording unit; TS-950SDX	\$139.99
SP-950	Ext spkr/audio filters; TS-950SDX	149.99
TS-B2000	PC ctrl HF/6m/2m/430 Xcvt/tuner	Call/Web
TS-2000	HF/6m/2m/430 Xcvt/ant tuner	Call/Web
*UT-20 1.2GHz mode Kenwood install only		
TS-2000X	HF/6m/2m/430/1.2 Xcvt/tuner	Call/Web
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99
ARCP-2000	PC control soft (inc w/TS-B2000)	82.99
DRU-3A	Digital recording unit	129.99
HS-5	Deluxe headphones	79.99
HS-6	Lightweight headphones	59.99
MB-430	Mobile mounting bracket	49.99
MC-43S	Extra 8-pin hand mic w/up-down	59.99
MC-57DM	Back-lit TTP hand mic	79.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-90	2-head DSP desk microphone	239.99
PG-2Y	13' DC cable	39.99
PG-22	6.5' heavy duty DC cable	37.99
RC-2000	Remote faceplate mobile kit	349.99
SP-23	External speaker	89.99
VS-3	Voice synthesizer	39.99
PS-52	Heavy duty power supply; TS-870S	269.99
SP-31	External speaker; TS-870S	99.99
TS-480HX	200w HF/100w 6m Xcvt	Call/Web
TS-480SAT	100w HF/6m Xcvt w/auto tuner	Call/Web
PS-53	Hvy duty 22.5A ps (use 2 for 200w)	249.99
HS-6	Lightweight headphones	59.99
MB-480	Carrying bracket w/handle	59.99
MC-43S	Extra 8-pin hand mic w/up-down	59.99
MC-47	Multi-function 8-pin hand mic	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-42	13' panel extension kit	59.99
PG-20	22' DC cable	49.99
SO-3	TCXO unit	109.99
SP-23	External speaker	89.99
SP-50B	High quality external mobile spkr	55.99
VGS-1	Voice guide & storage unit	69.99
YF-107C	500 Hz CW filter	119.99
YF-107CN	270 Hz CW filter	119.99
YF-107SN	1.8 KHz SSB filter	119.99
TS-570D(G)	9-band Xcvt/Rcv/AFDSP/tuner/mic	Call/Web
TS-570S(G)	9-band Xcvt/6m/Rcv/AFDSP/tuner/mic	Call/Web
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99

AES Price

Kenwood - continued

DRU-3A	Digital recording unit	129.99
HS-5	Deluxe headphones	79.99
HS-6	Lightweight headphones	59.99
MB-430	Mobile mounting bracket	49.99
MC-43S	8-pin hand mic w/up-down	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-90	2-head DSP desk microphone	239.99
PG-2Y	13' DC cable	39.99
PG-22	6.5' heavy duty DC cable	37.99
SO-2	TCXO unit	179.99
SP-23	External speaker	89.99
SP-50B	High quality external mobile spkr	55.99
VS-3	Voice synthesizer	39.99
YK-88C-1	500 Hz CW filter	129.99
YK-88CN-1	270 Hz CW filter	129.99
YK-88SN-1	1.8 KHz SSB filter	129.99
TS-50S	Compact HF Xcvt/Rcv SWR/mic/mt	669.99
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99
AT-50	External HF auto tuner	329.99
PG-4M	18' extension cable for AT-50	29.99
MC-47	Extra multi-function 8-pin hand mic	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
PG-2Y	13' DC cable	39.99
PG-22	6.5' heavy duty DC cable	37.99
SO-2	TCXO unit	179.99
SP-23	External speaker	89.99
SP-50B	High quality external mobile spkr	55.99
TC-50/50Case	Travel case; TS-50S/60S	89.99
YK-107C	500 Hz CW filter; TS-50S	129.99
7-pin DIN plug		4.99
8-pin DIN plug		6.99
13-pin DIN plug		9.99
HS-5	Deluxe headphones	79.99
HS-6	Lightweight headphones	59.99
KPS-15	23A switching ps w/fan, 25A surge	149.99
LF-30A	1kw PEP low pass filter	64.99
MC-43S	8-pin hand mic w/up-down switch	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-38	15A DC line noise filter	29.99
SP-50B	High quality external mobile speaker	55.99
TU-7	Prog encoder; 2550/751A/TW-4100A	54.99
UT-10	1.2GHz 10w module for TS-790A	499.99
YG-455C-1	500 Hz CW filter; TS-450/690	149.99
TM-V708A	50w 2m/35w 440 FM Xcvt	Call/Web
TM-D700A	50w 2m/35w 440 FM/1200/9600	519.99
MB-201	Extra mobile bracket	25.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
PG-4X	13' extension cable kit	69.99
PG-5A	Packet data cable	15.99
SP-50B	High quality external mobile spkr	55.99
VS-3	Voice synthesizer	39.99
TM-G707A	50w 2m/35w 440 FM/TTP mic	269.99
DFK-3C	9' separate display cable kit	44.99
DFK-4C	13' remote cable kit	64.99
DFK-7C	Deluxe 23' remote cable kit	99.99
MB-201	Extra mobile bracket	25.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
PG-4S	PC interface cable	32.99
PG-5A	Packet data cable	15.99
SP-50B	High quality external mobile spkr	55.99
VS-3	Voice synthesizer	39.99
TM-461A	35w 440 FM Xcvt w/TTP mic	429.99
MB-201	Extra mobile bracket	25.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
SP-50B	High quality external mobile spkr	55.99
TSU-8	CTCSS decoder	59.99

Kenwood - continued AES Price

TM-271A	60w 2m FM Xcvr w/WX alert	184.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
PG-5D	PC interface cable	75.99
SP-50B	High quality external mobile spkr	59.99
DFK-3	9' separate dispil cable kit; 642/742	26.99
DFK-4	13' remote cable kit; 642/742AD	59.99
DFK-7	Dlx 22' remote cable kit; 642/742	89.99
KQT-8/TSU-6	Prog CTCSS decoder; TM-541A	49.99
MC-57DM	Back-lit TIP mic; 241/331/441/541	79.99
MC-58DM	Back-lit TIP mic; 251/733/742/255/V7A	79.99
TSU-7	CTCSS decoder unit; TM-642/742AD	59.99
UT-50S	50w 6m unit; TM-642/742AD	329.99
UT-220S	25w 220 MHz unit; TM-742AD	329.99
UT-440S	35w 440 MHz unit; TM-642AD	299.99
UT-1200	10w 1.2 GHz unit; TM-642/742AD	399.99
BT-9	4-AA battery holder; TH-22	29.99
KSC-8A	Drop-in cgr; 25/26/75/77/72/42/79	26.99
KSC-14	2-pack rapid charger; TH-22	49.99
PB-33	6v 1200mah battery; TH-22	79.99
PB-34	9.6v 600mah 5w battery; TH-22	89.99
TSU-8	CTCSS decoder; TH-22/42AT	59.99
TH-K2AT	5w 2m FM HT/batt/cgr/TTP	154.99
BT-14	6-AA battery holder	19.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
KHS-21	Boom mic headset	39.99
KSC-24	Rapid charger	46.99
PB-43N	7.2v 1100mah NiMH battery	44.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
PG-4Y	9-pin PC programming cable	32.99
SC-54	Soft case	16.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
WR-2	Water resistant bag; TH-22/42AT	29.99
TH-G71A	5w 2m/440 FM HT/batt/cgr/TTP	Call/Web
TH-D7A(G)	5w 2m/440 FM HT/1200/9600 TNC	Call/Web
BT-19	Rapid charger	64.99
BT-11	4-AA battery holder	17.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
UT-0631-13	Belt clip for batt; D7A/G71A	4.99
PB-39	9.6v 600mah 5w battery	57.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
PG-4W	PC software/cable; TH-D7A(G)	55.99
PG-4Y	9-pin PC prog cable; TH-G71A	32.99
SC-45	Soft case for TH-G71A/PB-38/39	15.99
SC-47B	Black soft case for TH-D7A(G)	15.99
SC-47OR	Orange soft case for TH-D7A(G)	15.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
WR-2	Water resistant bag	29.99
TH-G71A	5w 2m/220/440 FM HT/lth ion batt	329.99
BT-13	AA battery case	25.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
KHS-21	Boom mic headset	39.99
PB-42L	Extra 7.4v 1550mah lithium ion batt	79.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
PG-4Y	9-pin PC programming cable	32.99
SC-51	Soft case w/wivel belt clip	16.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
WR-2	Water resistant bag	29.99
E59-0407-08	16-pin DIN plug only; VCH-1	6.99

Kenwood - continued AES Price

KCT-24S	VCH-1 to PC software/cable	16.99
CONSUMER ELECTRONICS		
TKM-707	150w HF marine SSB Xcvr spec order	1249.99
KAT-1	HF marine auto ant tuner	569.99
UBC-3	Nicad desk charger; UBZ-LH14BK	6.99
USC-5B	Black nylon case; UBZ-LH14BK	6.99
KESTER (KES)		
82-5000-0004	.5 oz 60/40 solder, .040 dia	\$ 1.99
KLEINHUIS (KLE)		
1309	Isolated grounding bar	\$ 14.99
KOSS (KOS)		
KTX/8	Collapsible stereo w/vol control	\$ 14.99
QZ/5	Passive noise reduction stereo	49.99
QZ/50	Active noise reduction stereo	49.99
QZ/99	Noise reduction stereo w/mono sw	59.99
QZ/2000	Active noise reduction stereo	149.99
Y-88	Dual stereo Y-adaptor	4.99
KURANISHI (KUR)		
BR-210	1.8-170MHz SWR/antenna analyzer	\$ 429.99
LDG (LDG)		
MP-Head	Remote head; AT-11MP	\$ 19.99
MP-AL-Cable	Alli interface cable; AT-11MP	6.99
MP-IC-Cable	Icom interface cbl; AT-11MP	6.99
AT-100Pro	160-6m 1-125w auto tuner	199.99
AT-200Pro	160-6m 5-200w auto tuner	229.99
FREE Balun from LDG w/AT-200Pro thru 6/30/05		
AL-IC1	Alinco 10' interface cable	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface	59.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/nd fed	30.99
Y-OTT	FT100/817/57/97 1-touch tune interface	59.99
AT-1000	1000w PEP HF/100w 6m auto tuner	549.99
AT-897	Bolt-on auto tuner for Yaesu FT-897	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/nd fed	30.99
RT-11	160-6m 1-125w/50w 6m rem auto tuner	199.99
AL-IC1	Alinco 10' interface cable	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface	59.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/nd fed	30.99
RT-Remote	RT remote head	39.99
Z-100	160-6m 1 to 125w/50w 6m auto tuner	149.99
AL-IC1	Alinco 10' interface cable	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface	59.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/nd fed	30.99
Y-OTT	FT100/817/57/97 1-touch tune interface	59.99
TW-1	160-6m 2kw PEP talking wattmeter/SWR	149.99
LA CROSSE (LAC)		
WS-2010	Professional wireless weather stn	\$ 389.99
WS-2010-13	PC interface/software	129.99
WS-2310	Wireless/wired weather center	249.99
WS-7013U	Wireless temperature station	24.99
WS-7038UF	Wireless rain gauge	59.99
WS-7075UF	Wireless forecast station	59.99
WS-8117U-Dak	Atomic clock w/in/out temp/moon	39.99
WS-8025AL	Dlx sun/moon wireless WX station	159.99
WS-9016U	Sun/moon wireless weather stn	79.99
SPK531	Projection alarm w/remote temp	49.99
TX-3U	Extra temp sensor w/LCD; all WX units	15.99
3362U	Power cost controller	29.99

La Crosse - continued AES Price

IR-101	Infra-red thermometer	49.99
RS-204U	Remote control outlet	29.99
LAKEVIEW (LAK)		
9175	75m 7' Hamstick antenna	\$ 24.99
9160	60m 7' Hamstick antenna	24.99
9140	40m 7' Hamstick antenna	24.99
9130	30m 7' Hamstick antenna	24.99
9120	20m 7' Hamstick antenna	24.99
9117	17m 7' Hamstick antenna	24.99
9115	15m 7' Hamstick antenna	24.99
9112	12m 7' Hamstick antenna	24.99
9110	10m 7' Hamstick antenna	24.99
9106	6m 4.5' Hamstick antenna	24.99
901	Dipole mount for 2 Hamsticks	14.99
IM-1	Inducti-match for 75-12m mobile ant	17.99
TM-1	License plate mount, 1/4-24	44.99
TM-1-Plus	License plate mount, SO-239	24.99
LARSEN (LAR)		
27-31 MHz ANTENNA		
NMO-27B	10m black ant only (no mount)	\$ 36.99
NMO-27C	10m ant only (no mount)	32.99
47-54 MHz ANTENNA		
NMO-50B	6m black ant only (no mount)	\$ 36.99
NMO-50C	6m ant only (no mount)	32.99
144-174 MHz ANTENNAS		
NMO-150B	2m black ant only (no mt), 3 db	\$ 33.99
NMO-150C	2m ant only (no mount), 3 db	30.99
220-265 MHz ANTENNAS		
NMO-220B	220 black ant only (no mt), 3 db	\$ 36.99
NMO-220C	220 ant only (no mount), 3 db	30.99
440-460 MHz ANTENNAS		
NMO-440B	440 black ant only (no mt), 4.5db	\$ 35.99
NMO-440C	440 ant only (no mount), 4.5 db	29.99
MM-270PL	2m/440 1/4 wave/2db mag mt ant	54.99
NMO-270B	2m/440 blk ant only (no mt), 2/4db	69.99
NMO-270C	2m/440 ant (no mount), 2/4db	64.99
NMO-270-SH	2m/440 ant (no mt), 1/4 wv/2db	40.99
NMOQ-Spec	136-512 MHz 1/4 wave ant (no mt)	13.99
NMOQ-Spec-B	136-512 black 1/4 wv ant (no mt)	15.99
NMOQ-Spec-K	136-512MHz 1/4 wv 3/4" hole ant	28.99
NMOQ-270-B	2m/440 1/4 wv cell look ant (no mt)	38.99
GPS-NM002	GPS NMO mount ant (no mt)	69.99
NMO-150450800	3-band scanner ant (no mt)	29.99
ON GLASS ANTENNAS		
KG-144-UD-PL	2m 3 db on glass antenna	\$ 86.99
KG-220-UD-PL	220 3 db on glass antenna	86.99
KG-440-UD-PL	440 2.4 db on glass antenna	73.99
KG-270-CX-PL	2m/440 2.5/4.5db on glass	124.99
KG-Reinstall	Reinstall kit for KG-ants	8.99
KULDUCKIES - For Hand-holds		
KD4-270	2m/440 BNC Kulducky	\$ 38.99
KD4-222	220 BNC Kulducky	6.99
KD14-445	440 1/4 wave BNC Kulducky	19.99
KD4-146-HQ	2m part helical, part 1/4 wave BNC	25.99
KD14-2M-HW	2m 1/2 wave BNC antenna	38.99
KD14-440-HW	440 1/2 wave BNC antenna	14.99
ACCESSORIES		
BSA-K	Base mtg kit; NMO/UHF mt mobile ant	\$ 53.99
NMO-B38	NMO mt hdw/A-7 NLA adaptor	13.99
NMO-CAP-B	Black rain cap for NMO mount	4.99
NMO-K	1/4" hole mt w/coax for NMO ant	15.99
NMO-MM	Magnet mt, coax for NMO ant	32.99
NMO-TLP	Low profile tnl lid mt, coax; NMO ant	29.99
PO-K	Roof mt, coax for SO-239 ant	32.99
PO-MM	Magnet mt, coax for SO-239 ant	36.99
PO-TLM	Trunk lip mt, coax for SO-239 ant	9.99
RG-SS	Extra super seal NMO gaskets (3)	5.99

Larsen - continued

AES Price

SPRING Shock spring	10.99
TMB-34 Trunk mtg bkt for NMO antenna	5.99
TMB-34B Black trunk mtg bkt for NMO ant ..	7.99
W-270B 2m/440 black replacement mobile whip	27.99
W-K62/70 2m/440 replacement on glass whip ..	29.99
W-490 49" replacement mobile whip	8.99
W-490B Black 49" replacement mobile whip ..	12.99

LIGHTWAVE (LIG)

LW-HT 4 LED/3 AA-cell illuminator head torch ..	\$ 39.99
LW-PB 1 LED/2 lth-cell pocket flashlight	19.99
LW-2000 4 LED/3 AA-cell flashlight	29.99
LW-3000 7 LED/3 C-cell flashlight	49.99
LW-4000 10 LED/3 D-cell flashlight	59.99

LOGSAT (LOG)

Logsat Professional Satellite tracking CDROM ..	\$ 69.99
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LOSI (LOS)

A0014 XXX-4 4WD electric Competition buggy kit ..	D \$239.99
A0090 XXX-T Sport RTR w/XR21 electric car ..	269.99

M² (MSQ)

KT-36XA 20/15/10m Gel 32' boom beam	1299.99
40M-1DX 6.9-10 MHz rotatable dipole	499.99
20M-4DX 20m 7.4db 4el 34' boom beam	599.99
17M-5DX 17m 8.6db 5el 36' boom beam	429.99
15M-4DX 15m 8.5db 4el 33' 8" boom beam ..	499.99
12M-4DX 12m 8.6db 4el 27' boom beam	329.99
10M-4DX 10m 8.7db 4el 23' boom beam	399.99
6M-3 6m 50-50.6 or 51-54.6db 3el 6'9" boom beam ..	149.99
6M-5X 6m 50-50.5 or 51-54.9db 5el 18' boom beam ..	249.99
6M-7JH 6m 50-50.4 10.9db 7el 30'8" boom beam ..	299.99
6M-2WLC 6m 49.7-50.5 11.9db 9el 39' 6" boom T* ..	499.99

*6M-2WLC is drop-shipped (shipped direct to you from the M² factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Fresno, California via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant ..	113.99
6" x 1/2" 3/8-24 mobile mast for loop	10.99
16" x 1/2" 3/8-24 mobile mast for loop	12.99
18" x 5/8" 3/8-24 mobile mast for loop	17.99
36" x 1/2" 3/8-24 mobile mast for loop	28.99
50" x 1/2" 3/8-24 mobile mast for loop	31.99
Mast/Top Bkt Top bracket for mast; HO stack ..	19.99
2M-4 2m 7.5db 4el 4' boom beam	113.99
2M-7 2m 10.3db 7el 8'10" boom beam	127.99
2M-9FM 2m 145-148 12db 9el 14' 6" boom beam ..	149.99
2M-9SSB 2m 144-146 12db 9el 14' 6" boom beam ..	149.99
2M-12 2m 12.8db 12el 19'6" boom beam	199.99
2M-5WL 2m 14.8db 17el 33' boom beam	249.99
2M-18XXX 2m 144-146 15.3db 18el 36'3" boom beam ..	289.99
2M-8WLHD 2m 144-144.7 17db 21el 55' boom beam ..	599.99
2M-CP12 2m 10.3db 7h/7v 10'6" boom beam ..	199.99
2M-CP22 2m 12.5db 11h/11v 18'6" boom beam ..	289.99
PS-2M 2m polarity switch; circ pol beam ..	169.99
FG X-Boom Kit For circular antennas, etc.	159.99
2M5-440XP 2m/440 9/12db 5/10el 5'8" boom beam ..	215.99
2M-HO-LOOP 2m 144-144.5 4.8db horiz loop ..	49.99
6" x 1/2" 3/8-24 mobile mast for loop	10.99
16" x 1/2" 3/8-24 mobile mast for loop	12.99
18" x 5/8" 3/8-24 mobile mast for loop	17.99
36" x 1/2" 3/8-24 mobile mast for loop	28.99
50" x 1/2" 3/8-24 mobile mast for loop	31.99
Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc ..	119.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP ..	24.99
Mast/Top Bkt Top bracket for mast; HO stack ..	19.99
STACK-KIT Stack kit for 2m-HO-LOOP's	74.99

M² - continued

AES Price

TOP BKT KIT For 2M-HO-LOOP	D 9.99
EB-144/RK-2M 2m Eggbeater w/reflector kit ..	199.99
222-7EZ 220 9.8db 7el 5' 8" boom beam	109.99
222-10EZ 220 12db 10el 9' 9" boom beam ..	125.99
222-5WL 220 15.2db 15el 23'3" boom beam ..	199.99
222-7WL 220 16.4db 23el 32'5" boom beam ..	249.99
222-HO-LOOP 220-224 4.75db horiz loop ant ..	49.99
6" x 1/2" 3/8-24 mobile mast for loop	10.99
16" x 1/2" 3/8-24 mobile mast for loop	12.99
18" x 5/8" 3/8-24 mobile mast for loop	17.99
36" x 1/2" 3/8-24 mobile mast for loop	28.99
50" x 1/2" 3/8-24 mobile mast for loop	31.99
MAG-KIT Magnet mt kit; single 222-HO-LOOP ..	24.99
Mast/Top Bkt Top bracket for mast; HO stack ..	19.99
440-470-5W 440-470 7.8db 5el 2'2" boom beam ..	149.99
420-50-11 432 11.3db 11el 5' boom rear mt beam ..	109.99
440-18 432 14.5db 18el 11'4" boom beam ..	149.99
440-21ATV 432 15.9db 21el 14'6" boom beam ..	169.99
436-CP30 432 15.5db 15el/15v 9'9" boom beam ..	289.99
436-CP42UG 432 16.8db 21h/21v 18'10" boom beam ..	329.99
PS-70CM 432 polarity switch; circ pol beam ..	169.99
FG X-Boom Kit For circular antennas, etc.	159.99
432-9WL 432 17.3db 28el 21' boom beam ..	199.99
432-13WLA 432 18.6db 38el 30'8" boom beam ..	269.99
432-HO-LOOP 430-436 5db horiz loop ant ..	49.99
6" x 1/2" 3/8-24 mobile mast for loop	10.99
16" x 1/2" 3/8-24 mobile mast for loop	12.99
18" x 5/8" 3/8-24 mobile mast for loop	17.99
36" x 1/2" 3/8-24 mobile mast for loop	28.99
50" x 1/2" 3/8-24 mobile mast for loop	31.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc ..	119.99
MAG-KIT Mag mt kit; single 432-HO-LOOP ..	24.99
Mast/Top Bkt Top bracket for mast; HO stack ..	19.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's ..	74.99
TOP BKT KIT For 432-HO-LOOP	D 9.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit ..	189.99
902-6W 900MHz 10db 6el 2' boom beam	49.99
902-18EZ 900MHz 14.8db 18el 5'4" boom beam ..	149.99
23CM-22EZA 1.2GHz 16db 22el 5'2" boom beam ..	149.99
23CM-35 1.2GHz 18.4db 35el 10' boom beam ..	189.99
2M-2-Port-PD 2m 2-port type N power divider ..	69.99
70CM-2-Port-PD 432 2-port N power divider ..	69.99
23CM-2-Port-PD 1.2GHz 2-port N power divider ..	69.99
FAST MAST 20' extended port alum mast	99.99
OR-2800PDC 35 sq ft azimuth rotor/control 8-wire ..	1399.99
RC-2800PP Control box; prop pitch .spec order ..	549.99

MFJ (MFJ)

ANTENNA TUNERS

989C Dlx 1.2kw PEP w/roller inductor	\$319.99
986 1.2kw PEP w/roller inductor	299.99
962D 1.5kw PEP/meter/switch/balun/roller ind ..	249.99
969 HF & 6m 300w roller inductor tuner	189.99
949E 300w/PEP meter/dummy/switch/balun	139.99
948 300w/PEP meter/dummy/switch/balun	119.99
941E 300w tuner w/meter, switch, balun	109.99
945E 300w tuner w/meter plus 6m	99.99
20 Mobile bracket for 945E	4.99
901B Versa Tuner 200w ant tuner	79.99
910 80-10m mobile antenna matcher	19.99
16010 200w random wire tuner	49.99
974 3.5-54MHz balanced line ant tuner	169.99
974H 1.8-54MHz balanced line ant tuner	189.99
991 150w automatic antenna tuner	199.99
993 300w deluxe automatic antenna tuner ..	239.99
994 600w automatic antenna tuner	329.99
1316 12vdc 1.5A adapter; auto tuners	19.99
5124A Icom interface cable; auto tuners	19.99
51241 Icom interface cable; auto tuners	19.99
5124K Kenwood interface; auto tuners	59.99
5124Y Yaesu interface; auto tuners	59.99

MFJ - continued

AES Price

902 80-10m 150w travel tuner	79.99
903 6m antenna tuner	49.99
906 6m antenna tuner w/wattmeter	79.99
914 Auto tuner extender	59.99
921 2m/220 300w PEP tuner/SWR/wattmeter	69.99
922 2m/440 150w tuner/SWR/wattmeter	79.99
924 440 MHz 300w PEP tuner/SWR/wattmeter ..	69.99
934 300w tuner w/artificial ground	169.99

MEMORY KEYS

451 Dedicated CW keyboard w/memory	\$ 99.99
452 CW keyboard/keys w/disp/keyboard	129.99
452X CW keyboard/keys w/disp, no keyboard ..	99.99
498 Dlx CW keyboard/keys w/disp/keyboard ..	139.99
490 492 keys/Bencher paddle combo	189.99
490X 492 keys for use w/Bencher or 564	99.99
564 Deluxe iambic chrome paddle for 490X ..	59.99
564B Deluxe iambic black paddle for 490X ..	59.99
492 192 char menu driven memory key	99.99
495 Millennium memory key	149.99
5409 9-pin serial port 6' cable for 493	1.99

ELECTRONIC KEYS

407D Deluxe electronic key	\$ 69.99
401D Econo key	49.99

KEYER/PADDLES

422D Keyer/Bencher paddle combination	\$159.99
422DX Keyer only	79.99
441 SlimLine econo keyer	59.99
442 SlimLine keyer/Bencher paddle combo ..	159.99
442X SlimLine keyer only	49.99
447 SlimLine deluxe keyer	79.99
564 Deluxe iambic chrome paddle	59.99
564B Deluxe iambic black paddle	59.99

COMPUTER INTERFACES

1224 Interface	\$ 99.99
1285 Software for IBM; 1224	19.99
1278B Multi-mode controller w/Pactor	D 279.99
48 1278 upgrade	24.99
52 TNC2 deviation meter board	D 6.99
780 DSP data filter for 1278B	49.99
1284D 1284 disk only	D .19
1284M 3 1/2" IBM starter pack	D 9.99
1284W MFJCOM for Windows	29.99
1287D 1287 disk only	D .09
1289M 3 1/2" multicom software for IBM	D 29.99
1289W Multicom for Windows with cable ..	59.99
1289WD Multicom for Windows, less cable ..	49.99
1214PC Multimode interface for IBM	139.99

781 DSP filter for any TNC or controller	69.99
1272B TNC to microphone interface	39.99
1272BYH TNC/mic switch; KAM HF	39.99
1272BYV TNC/mic switch; KAM VHF	39.99
1272M TNC/mic RJ-45 switch; MFJ/PK-900 ..	39.99
1272MYV TNC/mic RJ-45 sw; KAM VHF; KPC3 ..	39.99

SSB/CW FILTERS

751B Super tuneable CW audio filter	\$ 69.99
752C Dual tuneable SSB/CW filter	99.99
784B Deluxe tuneable DSP filter	229.99
5184 Cable patch for 784B	7.99

PHONE PATCH

624D Phone patch w/audio VU meter	\$119.99
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DUMMY LOADS

250 2kw PEP dummy load w/oil	\$ 59.99
250X 2kw PEP dummy load, less oil	39.99
21 1 gal industrial xfmr oil for wet dummy ..	24.99
260C 300w 0-650 MHz dry dummy load	34.99
260CN 300w 0-650 MHz type N dry dummy ..	39.99
264 1.5kw 0-650 MHz dry dummy load	69.99
264N 1.5kw 0-650 MHz type N dry dummy ..	79.99
267 1.8-54 100w dry dummy load/SWR/wattmeter ..	139.99

MFJ - continued**AES Price****MFJ - continued****AES Price****MFJ - continued****AES Price****SWR/WATTMETERS**

812B 144-220 MHz SWR/FS/wattmeter	\$ 34.99
815B 160-6m cross-needle SWR/wattmeter ..	79.99
816 1.8-30 MHz toroidal SWR/wattmeter	34.99
817 2m/440 cross needle meter	89.99
841 2m 5w in-line HT wattmeter/SWR	39.99
844 Compact 2m/440 SWR/wattmeter	69.99
860 1.8-60 MHz cross-needle meter	44.99
862 2m/220/440 cross-needle meter	54.99
864 1.8-60MHz/2m/440 cross needle meter ..	84.99
870 1.6-60MHz Grandmaster SWR/wattmeter ..	124.99
872 1.8-200MHz Grandmaster SWR/wattmeter ..	94.99
873 125-525MHz Grandmaster SWR/wattmeter ..	104.99
874 1.8-525MHz Grandmaster SWR/wattmeter ..	159.99

SHORTWAVE ACCESSORIES

306 Car radio SWL converter	\$ 89.99
956 LW/MW/SW preselector/tuner	49.99
959C SW receiver ant tuner w/preamp	99.99
1020C 3-30 MHz indoor active receive ant ..	79.99
1022 300KHz-200MHz active rcv antenna	49.99
1024 05-30 MHz outdoor active rcv ant	129.99
1040B Deluxe receiver preselector	99.99
1045C Receiver preselector	69.99

BOOKS

30 Golden Classics book	\$ 9.95
32 Packet Made Easy book	9.95
33 Mobile Handbook book	12.95
36 Shortwave Listeners Guide; Apts/Condos ..	9.95
37 Ham Communications Circuit Files book ..	9.95
38 Easy-up Antennas book	16.95
3036 The Packet Radio Operators book	12.95
3101 Fox Hunt Adventure book	7.95
3211 Technician license guide	9.95
3213 General license guide	9.95
3301 Troubleshooting Antenna & Feedlines book	12.95
3302 73 Dipole and Long-Wire Antennas	12.95
3303 73 Vertical, Beam, and Triangle Ants	12.95
3305 Antennas & Transmission Lines book ..	19.95
3400 Morse Code: Breaking the Barrier	19.95
3502 Solid State QRP Projects	12.95
3504 FET Principles, Experiments & Projects ..	16.95
3506 Ferromagnetic-Core Design book	19.95
3507 Practical RF Design Manual	19.95
3509 Ladder Crystal Filters	19.95

CLOCKS

105C 24-hour quartz wall clock	\$ 19.99
107B 24-hour digital clock	9.99
108B 24/12-hour dual disp digital clock	19.99
112B Deluxe world map clock	24.99
113 24/12-hr 1.8" LED clock/batt back-up ..	19.99
115 DX'er 24-hour analog world wall clock ..	24.99
1160C 12-hour 12vdc LED clock	9.99
118 Giant 24/12 hour LCD clock	24.99
123 Eternity solar atomic clock	79.99
125 Calendar 24-hour analog wall clock	29.99

ANTENNAS

343 1 1/4" hole mount for 3/8-24 whip	\$ 9.99
1402 2m/440 0/3db 16.5" 100w ant only	34.99
1412 2m/440 3/5.5db 40" 200w ant only	49.99
1422 2m/440 3/2.5db 41.5" 150w ant only ..	49.99
1432 2m/440 5/7.6db 62.5" 150w ant only ..	69.99
1436 6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM 3.5" HiFlux NMO mag mt; not 1436 ..	14.99
333BS 3.5" HiFlux SO-239 magt mt not 1436 ..	14.99
335BM 5" HiFlux NMO mag mt; not 1436 ..	19.99
335BS 5" HiFlux SO-239 magt mt; not 1436 ..	19.99
340 Mirror/Luggage pipe clamp mount	34.99
345 Trunk/hatchback lip mount SO-239 mt	34.99
1516 2m 15" vertical base antenna	99.99
1621 40-10m 54" portable ant w/tuner	89.99
1622 40-2m apartment antenna	99.99

1624 40-6m mini bugcatcher antenna	79.99
1661 40-2m portable manual screwdriver ant	109.99
1664 80-6m portable manual screwdriver ant	139.99
1710 2m 3/4 wave telescopic antenna	9.99
1712 2m/440 telescopic antenna	14.99
1713 2m/440 SuperFlex Thin Duk HT ant	19.99
1713S 2m/440 SuperFlex SMA Thin Duk ant ..	19.99
1714 2m 3/4 wave telescopic antenna	16.99
1715 2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S 2m/440 SuperFlex gain SMA Thin Duk	24.99
1716 2m/440 duck for HT	16.99
1716S 2m/440 SMA duck for HT	16.99
1717 2m/2.15db 440 duck for HT	21.99
1717PL 2m/440 foldover flexi-duck, PL-259 ..	24.99
1717S 2m/2.15db 440 SMA duck for HT	21.99
1719 2m/440/1.2GHz Midget Duck	19.99
1719S 2m/440/1.2GHz SMA Midget Duck	19.99
1720S 6m/2440 SMA Duck	29.99
1721 2m HT UltraLite mag mt antenna	14.99
1722 2m/440 HT UltraLite mag mt antenna ..	18.99
1724B 2m/440 magnet mt antenna	16.99
1727 10m magnet mt antenna	24.99
1728B 6m 3/4 wv/2m 3/4 wv mag ant/PL259/BNC	24.99
1729 2m/440 magnet mt antenna	34.99
1730 2m pocket roll-up vertical antenna	19.99
1734 2m/440 2.6/6.3db glass mt antenna	39.99
1736 6m J-Pole travel antenna	29.99
1738 2m 2.6db glass mt antenna	29.99
94 Remount kit for 1734/1738	4.99
1740 2m 3/4 wave ground plane ant	19.99
1750 2m 3/4 wave ground plane ant	24.99
1752 220 3/4 wave ground plane ant	24.99
1754 2m/440 ground plane antenna	29.99
1756 6m DX vertical antenna	49.99
1762 6m 6db 3 el 6' boom beam	79.99
1763 2m 3el portable beam	44.99
1764 2 & 6m dual 3/4 super gain base ant	49.99
1768 2m/440 4/7 el beam antenna	79.99
1778 G5RV 160-10m 102' ant (needs tuner)	39.99
1786 Super Hi-Q 10-30 MHz loop/dx control ..	349.99
1788 Super Hi-Q 40-15m loop/dx controller ..	389.99
1796 40/20/15/10/6/2m 10' vertical ant	189.99
1798 80/40/30/20/17/15/12/10/6/2m 20' vert	269.99
1899T 80-6m telescopic antenna; FT-817 ..	69.99
1910 33' telescoping fiberglass mast	79.99

CABLES

5020 MFJ TNC - Yae FT50R/compat	\$ 15.99
5020YV KAM VHF/KPC3 - Yae FT50R/compat ..	15.99
5022 MFJ TNC - Alinco/Standard HT cable ..	6.99
5022YV KAM VHF/KPC3 - Ali/Sta HT cable ..	15.99
5024 MFJ TNC - Ico/Yae/Alir/RS HT cable ..	15.99
5024B PK/PacComm/compat - Ico/Yae/RS ..	15.99
5024YV KAM VHF/KPC3 - Ico/Yae/Alir/RS HT	15.99
5026 MFJ TNC - Kenwood HT cable	15.99
5026YV KAM VHF/KPC3 - Kenwood HT cable ..	15.99
5060 MFJ TNC - Ken/Yae acc 6-pin mini DIN ..	19.99
5060YV KPC9612 - Ken/Yae acc 6pin mini DIN	19.99
5060YV KAM VHF/KPC3 - Ke/Yae acc 6pin mni DIN	19.99
5063 MFJ TNC - Icom HF acc 8-pin DIN	19.99
5063YV KAM DIN HF - Icom HF acc 8-pin DIN	19.99
5064 MFJ TNC - Icom VHF acc 8-pin DIN	19.99
5064YV KPC9612 - Icom VHF 8-pin DIN	9.99
5065 MFJ TNC - Ico IC-706 acc 13-pin DIN ..	19.99
5065YV KAM HF - Ico IC-706 acc 13-pin DIN	19.99
5065YV KAM VHF - Ico IC706 acc 13-pin DIN	19.99
5066 MFJ TNC - Kenwood HF acc 13-pin DIN	19.99
5066YV KAM HF - Ken HF acc 13-pin DIN	19.99
5080 MFJ TNC - Yaesu 8-pin cable	15.99
5080M MFJ TNC - Yaesu 8-pin modular	15.99
5080MYV KAM VHF/KPC3 - Yae 2500M/7400H	15.99
5080YV KAM HF port - Yaesu 8-pin cable	15.99

5080YV KAM VHF/KPC3 - Yaesu 8-pin cable ..	15.99
5082 Open end - 8-pin mic cable	9.99
5084 MFJ TNC - Icom 8-pin cable	15.99
5084M MFJ TNC - Icom 8-pin modular	15.99
5084MYV KAM VHF/KPC3 - Icom 8-pin mod ..	15.99
5084YV KAM HF port - Icom 8-pin cable	15.99
5084YV KAM VHF/KPC3 - Icom 8-pin cable ..	15.99
5086 MFJ TNC - Kenwood/Alinco 8-pin cable	15.99
5086M MFJ TNC - Kenwood 8-pin modular ..	15.99
5086MYV KAM VHF/KPC3 - Ken 8-pin mod ..	15.99
5086YV KAM HF port - Ken/Alir 8-pin cable ..	15.99
5086YV KAM VHF/KPC3 - Ken/Alir 8-pin cable	15.99
5088M MFJ TNC - Radio Shack 8-pin modular	15.99
5205 5-pin DIN open end cable	4.99
5208 Open end - Ico HF/VHF acc 8-pin DIN ..	9.99
5213 Open end - Kenwood acc 13-pin DIN ..	9.99
5220R/5220 Open end - Yae FT50R/compat ..	9.99
5222 Open end - Ali split HT cable	9.99
5224 Open end - Ico/Yae/Alir/RS HT cable ..	9.99
5268 Open end - modular phone plug cable ..	9.99
5412 IBM printer cable	9.99
5413 RS-232 6' cable DB-25M-25F	6.99
5414 RS-232 6' cable DB-25M-9F	9.99
5429 Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10 3' coax jumper cable	5.99

RADIO/COMPUTER

8100K Shortwave regenerative Rcvr kit	\$ 69.99
8100W Shortwave regenerative Rcvr wired ..	89.99
8621 5w 2m data radio w/145.01 MHz	139.99
8621X2 5w APRS ready 2m data radio/144.39 ..	149.99
4110 Portable AC power supply	49.99
5100 Data radio cable - MFJ/TAPR	15.99
5100YV Data radio cable - KPC-9612	6.99
5100YV Data radio cable - KAM/KPC-3	15.99
5106 Open end - 6pin mini Ken/Yae cable ..	4.99
8708 4ch ham mobile ATV transmitter	149.99
9015 5w 15m CW Xcvr	169.99
9020 5w 20m CW Xcvr	169.99
9030 5w 30m CW Xcvr	169.99
9040 5w 40m CW Xcvr	169.99
27 Handle for CW station	4.99
412 Plug-in Curtis keyer	49.99
726 Plug-in audio filter	29.99
971 200w portable ant tuner w/meter	99.99
1772 Portable 20m dipole	39.99
1774 Portable 40m dipole	39.99
4110 Portable AC power supply	49.99
4114 Rechargeable power pack	69.99
9140B 9040 Xcvr/tuner/ps/ant package	229.99
9402X 7w PEP 2m SSB Xcvr w/mic	269.99
9406X 10w PEP 6m SSB Xcvr w/mic	249.99
9410X 20w PEP 10m SSB Xcvr w/mic	239.99
9420X 12w 20m SSB Xcvr w/mic	229.99
9440X 12w 40m SSB Xcvr w/mic	229.99
9475X 12w 75m SSB Xcvr w/mic	229.99
415B SSB Xcvr CW adapter; 9420X/9440X ..	49.99
416 CW adapter for 9402X/9406X/9410X ..	49.99
971 200w HF portable ant tuner w/meter ..	99.99
1770A 10m dipole for 9410X	39.99
1772 Portable 20m dipole	39.99
1774 Portable 40m dipole	39.99
4110 Portable AC power supply	49.99
4114 Rechargeable power pack	69.99

ACCESSORIES

1305 5v 300ma adapter	\$ 9.99
1306 6v 300ma adapter	6.99
1312 12vdc 300ma adapter, 2.5mm plug	14.99
1312D 12vdc 500ma adapter, 2.1mm plug ..	14.99
1316 12vdc 1.5A adapter	19.99
10-BCI-2 Charger cup; Icom BP-131/132 ..	19.99

MFJ - continued

10-BCI-3	Charger; Icom BP-173/180	19
10-BCY-2	Cgr cup; Yae FNB10/11/12/17/27	1.9
15	HamGear belt loop radio holder	14.99
16C01	Gelaz ceramic end insulator	.99
18	HamGear chest harness/cargo pocket	29.99
92AA01	1300ma AA NiMH cell	2.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
201	1.5-250 MHz dip meter	109.99
202B	RF noise bridge	59.99
204B	HF Antenna bridge	79.99
207	160-10m SWR analyzer	79.99
208	2m SWR analyzer	79.99
209	1.8-170 MHz SWR analyzer	129.99
212	MatchMaker tune up device	79.99
219B	SWR analyzer, 440 MHz/NSO-239 adapt	99.99
224	2m FM signal analyzer	149.99
249B	1.8-170 MHz SWR analy/LCD counter	219.99
259B	1.8-170 MHz SWR analy/RF res meter	239.99
269	1.8-170-440 MHz SWR analy/RF res mtr	319.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	19.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
98	Package of 39C/66/1312D for 269	54.99
98B	Pack of 92AA10/39C/66/1312D for 269	77.99
99	Pack of 29C/66/1312D; 209/249B/259B	54.99
99B	Pack 92AA10/29C/66/1312D; 209/249B/259B	77.99
99C	Pack - 92AA10/1312D; 209/249B/259B/269	34.99
731	RFI filter for SWR analyzer	89.99
1312D	12vdc 500ma ps for SWR analyzers	14.99
270	Guardian Angel 400w PEP lightning protect	29.99
97	Gas tube plug for 270	9.99
281	ClearTone communications speaker	12.99
2881	Headset/mic; Icom/ADI/Sta/RS/older Yae	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
2921	Earph/mic; Ico/older Yae/compatibles	17.99
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
2931	Rubber flex earloop earbud/mic; Icom	24.99
293K	Rubber flex earloop earbud/mic; Kenwood	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu	24.99
2951	Mini spkr/mic; Icom & compatible HT	15.99
295K	Mini spkr/mic; Kenwood & compatible HT	15.99
295Y	Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	15.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297	9.99
5268	Open end - mod phone plug cbl; 297	9.99
53971	Cable/8-pin for 297; Icom HF	15.99
5397K	Cable/8-pin for 297; Kenwood HF	15.99
5397Y	Cable/8-pin for 297; Yaesu HF	15.99
5397MX	Cable/modular for 297; Icom/Kenwood	15.99
5397MY	Cable/modular for 297; Yaesu	15.99
310	BNC HT antenna window mount clip	14.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; SO-239	19.99
382	Deluxe amplified communications spkr	39.99
388	Cyber Ear 12db ear amplifier	39.99
392B	Deluxe communication headphones	19.99
394	Boom mic/single headphone	29.99
5396K	Adapter; 394/396 with Ken Xcvt ...D	.69
414	Professional Morse Tutor w/LCD	189.99
417	Code Tutor with QSO	59.99
418	Code Tutor with LCD display	79.99
434	Deluxe Voice Memory Keyer	169.99
73	Remote control head w/cable for 434	29.99
461	Pocket size Morse code reader	79.99
5161	DB-9 PC serial port cable	14.99
5162	Cable for radio external speaker	5.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader	169.99
5162	Cable for radio external speaker	5.99
464	CW reader w/built-in keyer	169.99

AES Price

MFJ - continued

550	Hand key	7.99
554	Deluxe CW practice oscillator	79.99
557	Code oscillator w/key	34.99
616	Speech intelligibility enhancer	159.99
1316	12vdc 1.5A adapter	19.99
281	ClearTone speaker (requires 2)	12.99
392B	Deluxe communication headphones	19.99
631	Trickle wall charger; NiMH/nicad AA ...D	5.99
633	Rapid charger; NiMH/nicad AA/AAA/9V	24.99
641-Y3	Battery charger; Yaesu FNB-31/33	1.99
10-BCY-3	Charger cup; Yae FNB-31/33	.29
662	Simplex pocket repeater	79.99
701	Toroid RFI filters	14.99
704	1kw low-pass filter	49.99
711	High pass filter	14.99
762	81db 170MHz BNC attenuator	69.99
801	Super compact field strength meter	19.99
802	Bipolar field strength meter	39.99
802R	Field strength remote meter	14.99
802X	Field strength/remote meter combo	59.99
805	RFI current detector meter	79.99
850	AC line voltage monitor	19.99
852	AC power line noise finder meter	99.99
854	HF RF current meter	99.99
886	1MHz - 3GHz pocket frequency counter	109.99
888	Deluxe 10Hz - 3GHz frequency counter	174.99
890	DX beacon monitor	99.99
912	W9INN remote balun	49.99
916	2m/440 duplexer	29.99
916B	2m/440 duplexer	29.99
931	Artificial ground unit	89.99
1025	Noise canceling antenna	149.99
1026	Deluxe noise canceling unit w/antenna	169.99
1046	1.6-33MHz receiver passive preselector	99.99
1048	1.6-33MHz Xcvt passive preselector	109.99
1112	Multiple DC outlet	34.99
1116	Dlx multiple DC outlet	49.99
1117	High current multiple DC outlet	54.99
1118	Dlx high current multiple DC outlet	74.99
1213	Interface for JVFA/HamComm	29.99
1262	Microphone switch; 8-pin round	69.99
1263	2mic in/2sig out switch/2 8pin round mic cbls	99.99
5397MX	Modular mic cable for 1263	15.99
1273B	Basic soundcard interface/soft; 8P-R	59.99
1273BM	Basic soundcard interface/soft; 8P-M	59.99
1275	Soundcard/rig interface/software; 8P-R	99.99
1275M	Soundcard/rig interface/software; 8P-M	99.99
1279	Super soundcard interface/soft; 8P-R	129.99
1279M	Super soundcard interface/soft; 8P-M	129.99
1292	Video digitizer for IBM	.99
1700C	6-pos combo ant/xmtr switch/protect	99.99
1701	6-position coax switch	59.99
1702C	2-pos coax switch/lightning protect	24.99
1702CN	2-pos 1.1GHz N switch/lightning protect	34.99
1703	2-rig-2-antenna RF safety switch	19.99
1704	4-pos 500 MHz switch/lightning protect	64.99
1704N	4-position type N switch	74.99
1925	Controller; Yaesu ATAS-series/other rigs	59.99
192512	Controller; Yae ATAS-series/Ico IC-706	59.99
4035MV	Dlx 30A adjustable ps, 35A surge	139.99
4103	Switching power supply for Yaesu FT-817	39.99
4125MV	MightyLite 22A 3.5 lb switch ps, 25A surge	99.99
4225MV	MightyLite 22A switching ps, 25A surge	139.99
4454MV	MightyLite 40A switching ps, 45A surge	189.99

MAGELLAN (MAG)

730275	Ext pwr cbl w/cig adapt; MAP330	9.99
Meridian Gold	GPS with 16MB base map	249.99
Meridian Platinum	GPS/16MB/compass/barometric	349.99
Meridian Color	Handheld color GPS/16MB	399.99
980611	MapSend Topo CD-ROM	99.99
980613-01	MapSend Streets & Destinations CD	89.99

AES Price

Magellan - continued

980654-01	MapSend DirectRoute; Gold/Plat/Col D	129.99
980654-03	MapSend DirectRoute; Gold/Plat/Col	149.99
SporTrak	GPS receiver w/LMB memory	169.99
SporTrak Map	GPS w/2MB map+4MB mem	199.99
SporTrak Pro	GPS w/9MB map+23MB mem	269.99
SporTrak Color	Handheld color GPS/9MB ...D	299.99
980611	MapSend Topo CD-ROM	99.99
980613-01	MapSend Streets & Destinations CD	89.99
980654-01	MapSend DirectRoute; Pro/Color	129.99
980654-03	MapSend DirectRoute; Pro/Color	149.99
Roadmate 300	Vehicle navigaton system GPS	699.99

MAHA (MAH)

9V	8.4v 170mah 9v size NiMH batt cell	8.99
AAA-T	1.2v 650mah AAA size NiMH batt cell ea	2.99
AA-FB	1.2v 1400mah AA NiMH batt w/tabs D ea	1.99
4-AA-220-BH	4pk 1.2v 2200mah AA NiMH cells	11.99
4-AA-230	4pack 1.2v 2300mah AA NiMH cells	13.99
MH-C124S	Reg cgr; 1-4 AA/AAA NiMH/NiCd	9.99
MH-C204F	Quick cgr/condi; 2/4 AA/AAA NiMH/NiCd	24.99
MH-C124	Cig adapter; MH-C124S/C204F	1.99
MH-C204W	Quick cgr/conditioner; 2/4 AA/AAA NiMH	29.99
MH-C204F8AA22	Charger/8 AA2200/car adapt	49.95
MH-C204F4AA23	Charger/4 AA2300/car adapt	39.99
MH-C401FS4AA22	Charger/4 AA2200/car adapt	49.95
MH-BP-7	13.2v 1000mah lcom nickel hydride	69.99
MH-BP-8	8.4v 1200mah lcom nickel hydride	59.99
MH-BP-8H	8.4v 1800mah lcom nickel hyd	59.99
MH-BP-83	7.2v 1300mah lcom nickel hydride	49.99
MH-BP-132B	12v 1300mah lco blk nick hyd/mic	29.99
MH-BP-173	9.6v 650mah lcom nickel hydride	69.99
MH-BP-180	7.2v 1000mah lcom nickel hydride	49.99
MH-BP-196M	9.6v 1350mah lcom nick hyd	29.99
MH-BP-199	6v 700mah lcom nick hyd/clip	34.99
MH-BP-200	9.6v 680mah lcom nick hydride/clip	59.99
MH-CNB-152	12v 1000mah Sta nickel hydride	59.99
MH-CNB-153	7.2v 1300mah Sta nickel hydride	49.99
MH-FNB-12	12v 1000mah Yaesu nickel hydride	59.99
MH-FNB-17	7.2v 1000mah Yaesu nickel hydride	49.99
MH-FNB-27	12v 900mah Yaesu nickel hydride	59.99
MH-FNB-38	9.6v 650mah Yaesu nickel hydride	59.99
MH-FNB-40H	7.2v 650mah Yae nick hyd/spg clip	34.99
MH-FNB-41	9.6v 1000mah Yae nick hyd/spg clip	55.99
MH-FNB-V47	7.2v 1800mah Yae nick hyd/spg clip	69.99
MH-FNB-V57	7.2v 1500mah Yae nickel hydride	49.99
MH-FNB-58L1	1200mah li-polymer; Yae VX5R	59.99
MH-FNB-72	9.6v 1700mah Yae nickel hydride	49.99
MH-PB-8	12v 1300mah Kenwood nickel hydride	62.99
MH-PB-17	12v 1300mah Kenwood nickel hydride	69.99
MH-PB-18	7.2v 1300mah Ken nick hyd; wall cgr only	49.99
MH-PB-32	6v 1000mah Kenwood nickel hydride	47.99
MH-PB-34	9.6v 1000mah Kenwood nickel hydride	57.99
MH-PB-39	9.6v 1050 mah Ken nickel hyd/clip	59.99
MH-PB-39H	6v 1800mah Ken nickel hyd/clip	59.99
MH-PB-42L1	1800mah li-polymer; Ken THF6A	69.99
MH-C777	Univ cgr/conditioner/cig cord; nicad/nimh D	49.99
MHS-CW4	Clip-leads for external charging	3.99
MH-C777 Plus II	Univ cgr/analy; lith/nicad/nimh	89.99
MHS-C888	Univ drop-in rapid cgr cord; nicad/nimh	59.99
MHS-C800U	External charger pin shell	.99
MHS-C801	Cup; T2/W32/TH22/79/FT10/50	7.99
MHS-C802	Cup; IC02AT/TH78/FT470/530	2.99
MHS-C803	Cup; Kenwood TH-D7A/G71A	7.99
MHS-C804	Cup; Icom IC-T8A/T81A	2.99
MHS-C805	Cup; Yaesu FT-11/41/51R	2.99
MHS-C806	Cup; Ali 195/580/F1/G5/V5/etc	7.99
MHS-DC-777	Cig lighter cord	5.99
MH-101-11	Cgr/157/160/174/1312/Mah 132B/G	2.99
MH-101-Y1	Cgr/Yae 101/112/17/2527/Mah 1227 D	2.99
MH-800K	500mw spkr/mic w/clip; Kenwood	19.99
MH-800S	500mw spkr/mic/clip; Ali/Ico/Yae	19.99

Maha - continued

	AES Price
MH-800Y 500mm spkr/mic; Yae FT50/VX1R ...	24.99
MHS-1 Ico 2G/02/2/32 adapt; A301/302 ...D	.69
MHS-12 Ico 2SAT/W2 adapt; A301/302 ...D	.19
MHS-13 Ico 2GXAT/W21AT adapt; A301/302 D	.69
MHS-K1 Ken 25/26/75/77 adapt; A301/302 ...D	.49
MHS-K2 Ken TH22/79 adapter; A301/302 ...D	.49
MHS-K3 Ken G71A/D7A adapter; A301/302 D	.29
MHS-S1 ADU/Standard adapt; A301/302 ...D	.29
MHS-Y1 Yae 23/41/1E/470 adapt; A301/302 D	.49
MHS-Y2 Yae 26/41/5/30 adapt; A301/302 D	.69
MHS-Y3 Yae FT11/41/51 adapt; A301/302 D	.29
MHS-Y4 Yae FT10/40/50 adapt; A301/302 D	.69

MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817 ...	\$ 45.99
AH-28 10m telescoping ant w/BNC; FT-817 ...	45.99
AH-C7 40m loading coil only w/BNC; FT-817	33.99
AH-C14 20m loading coil only w/BNC; FT-817	33.99
AH-C21 15m loading coil only w/BNC; FT-817	33.99
AH-C28 10m loading coil only w/BNC; FT-817	33.99
AH-R Telescoping whip for AH-C7/14/21/28	17.99
AH-510R 6/2m/440 37" BNC tele whip; FT-817HT	59.99
AH-510R/SMA 6/2m/440 37" SMA tele whip ...D	49.99
AS-20 2m/440 8.5" superflex SMA antenna ...	26.99
AS-25 2m/440 1" SMA antenna ...	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50 2m/440 0/5db 21" mobile antenna ...	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant ...	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant ...	66.99
EM-B80 Small trunk/hatch/van door lip mt ...	25.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO	44.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO	66.99
FVS-50 Dlx 2-step 16' 9" cable w/UHF connects	42.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant	159.99
HMC-7C 40m loading coil for HMC-6S ...	34.99
HVU-8 80/40/20/15/10/6/2m 8.6" vert w/radials	319.99
MH-209 2m/440 3" BNC duck ...	23.99
MH-209SMA 2m/440 3" SMA duck ...	23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511 6m/2m/440 0" 2SAT adapt ...	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H Motorized knk lip/hatch/van door mt	109.99
PR-212DNMO 2m/440 6/8.5db 85" NMO mob D	59.99
PRM-T Large trunk/hatch/van door lip mt ...	33.99
SHG-140B 2m 4.1db 56" mobile antenna ...	49.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant	49.99

MEADE (MEA)

0705-04-01 ETX-70AT Astro telescope w/tripod	\$319.99
07027 #884 Deluxe tripod	199.99
07137 1.25" 5mm Plossl lens	59.99
07139 1.25" 18mm WA lens	49.99
07170-02 1.25" 6.4mm super Plossl lens	49.99
07173-02 1.25" 15mm super Plossl lens	49.99
07220 #933 45" 1.25" erecting prism	69.99
07273 #126 1.25" 2x short-focus Barlow lens	59.99
07279 #670 dew shield	19.99
3514-03-20 ETX-90AT Astro tele/ctrlr/tripod	599.99
0515-03-20 ETX-125AT Astro tele/ctrlr/tripod	999.99
07137 1.25" 5mm Plossl lens	59.99
07139 1.25" 18mm WA lens	49.99
07170-02 1.25" 6.4mm super Plossl lens	49.99
07173-02 1.25" 15mm super Plossl lens	49.99
07273 #126 1.25" 2x short-focus Barlow lens	59.99
494 #494 Autostar controller; DS-EC-series ...D	9.99
20117 DS-214ATs 114mm reflector telescope	399.99
20211 NGC-70SP 70mm refractor telescope	219.99
07137 1.25" 5mm Plossl lens	59.99

Meade - continued

	AES Price
07139 1.25" 18mm WA lens	49.99
07170-02 1.25" 6.4mm super Plossl lens	49.99
07173-02 1.25" 15mm super Plossl lens	49.99
07273 #126 1.25" 2x short-focus Barlow lens	59.99
07522 908B broadband nebula filter	29.99

MEADOW RIDGE (CRO)

SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12	\$ 29.99
AN-123 150 feet No. 12	39.99
AN-124 250 feet No. 12	59.99
AN-126 500 feet No. 12	99.99
AN-128 1000 feet No. 12	179.99
AN-142 100 feet No. 14	24.99
AN-143 150 feet No. 14	29.99
AN-144 250 feet No. 14	39.99
AN-146 500 feet No. 14	69.99
AN-148 1000 feet No. 14	119.99
AN-181 250 feet No. 18	17.99
AN-182 500 feet No. 18	29.99

MIDLAND (MID)

74-200 SAME weather/hazard alert radio/ps	\$ 49.99
74-210 FM/SAME weather/hazard alert radio/ps D	49.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps	49.99

Miracle Antenna (MIA)

Miracle Whip 3.5-450MHz 57" QRP ant/tuner \$129.99

MIRAGE (MIR)

A-10156 50-52 FM/SSB 10/150w amp/preamp	\$349.99
B-34 2m FM 2/35w amplifier; no mob bkt	79.99
B-346 2m FM/SSB 2/35w amp/preamp	99.99
B-310G 2m FM/SSB 4/100w amp/preamp	179.99
B-320G 2m FM/SSB 50/200w amp/preamp	429.99
B-10186 2m FM/SSB 10/160w amp/preamp	369.99
B-25186 2m FM/SSB 23/160w amp/preamp	299.99
B-2530G 2m FM/SSB 25/300w amp/preamp	689.99
B-50186 2m FM/SSB 50/160w amp/preamp	299.99
B-5030G 2m FM/SSB 50/300w amp/preamp	669.99
BD-35 2m/440 4/45/4/35w HT amp	149.99
B-246 5/50w 2m HT dock boost amp/pre	109.99
MI-1 Ico 2G/02/2/23 adapter; B24G/BD25 D	3.99
MI-2 Ico 2SAT/W2 adapter; B24G/BD25	4.99
MI-3 Ico 2GXAT/W21AT adapt; B24G/BD25	9.99
MI-K1 Ken 25/26/75/77 adapt; B24G/BD25	4.99
MI-K2 Ken 22/79 adapter; B24G/BD25	9.99
MY-1 Yae 23/41/1E/470 adapt; B24G/BD25	4.99
MY-2 Yae 26/41/5/30 adapt; B24G/BD25	4.99
MY-3 Yae FT11/41/51 adapt; B24G/BD25 D	4.99
C-226 220 FM/SSB 2/20w amp/preamp	154.99
C-2116 220 FM/SSB 2/110w amp/preamp	329.99
C-10126 220 FM/SSB 10/120w amp/preamp	329.99
C-10226 220 FM/SSB 10/220w amp/preamp	689.99
C-25126 220 FM/SSB 25/120w amp/preamp	309.99
D-15N 430 FM/SSB/ATV 2/15w type N amp	169.99
D-26N 440 FM/SSB 2/60w type N amplifier	259.99
D-1010N 440 FM/SSB 10/100w type N amp	379.99
D-3010N 440 FM/SSB 30/100w type N amp	349.99
D-1010-ATVN 430 ATV 10/100w type N amp	399.99
RC-1* Remote control head w/18" cable	45.99

*Not for B-23/C-22-26

RC-2 Rem ctl head/cable; B-XX18G 45.99
The following Repeater Amplifiers are Special Order, Specify SO-239 or type N connectors

A-1015NR 6m FM 2/80w type N amplifier	\$549.99
A-1015R 6m FM 2/80w SO-239 amplifier	529.99
C-211NR 220 FM .5/80w type N amplifier	619.99
C-211R 220 FM .5/80w SO-239 amplifier	599.99
C-1012NR 220 FM 5/90w type N amplifier	619.99
C-1012R 220 FM 5/90w SO-239 amplifier	599.99

Mirage - continued

	AES Price
C-2512NR 220 FM 15/90w type N amplifier	589.99
C-2512R 220 FM 15/90w SO-239 amplifier	569.99
D-1010NR 440 FM 4/80w type N amplifier	629.99
D-3010NR 440 FM 12/80w type N amplifier	599.99
D-1010-ATVN-R 430 ATV 4/80w type N amp	629.99

PREAMPS

KP-1/10M 10m in shack preamp	Δ \$ 89.99
KP-1/6M 6m in shack preamp	129.99
KP-1/2M 2m in shack preamp	129.99
KP-1/440 440 in shack preamp	129.99
KP-2/10M 10m mast mount preamp	Δ 99.99
KP-2/6M 6m mast mount preamp	179.99
KP-2/2M 2m mast mount preamp	179.99
KP-2/220 220 mast mount preamp	Δ 99.99
KP-2/440 440 mast mount preamp	179.99

WATTMETER

MP-3 420-450 5/50/150w PEP wattmeter	Δ \$189.99
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NCG (NCG)

Power Pocket 12v 2AH lead acid batt/cgr	\$ 66.99
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NCS (NCS)

NCS-3230 Multi-receiver receive console	\$349.99
NCS-1514 Wall power supply; NCS-3230	24.99
NCS-P2PH35-A Multi-x/spkr out set 6 cables	42.99
NCS-MRX2MS-A 3240 & 3230 interface cbl kit	49.99
NCS-3240 Multi-switcher audio device	299.99
NCS-1512 Wall power supply; NCS-3240	12.99
NCS-LoZNC Unterminated interface cable	17.99
NCS-LoZBPI-I Icom 8-pin interface cable	24.99
NCS-LoZRI45-I Icom modular interface cable	23.99
NCS-LoZBPI-K Kenwood 8-pin interface cable	24.99
NCS-LoZRI45-K Kenwood modular interface cbl	23.99
NCS-LoZBPI-Y Yaesu 8-pin interface cable	24.99
NCS-LoZRI12-Y Yaesu modular interface cbl	23.99
NCS-3400 Multi-patch audio patch panel	129.99

Night Owl Optics (NOO)

NOLD-20 Lens doubler for NOCC-3	Δ \$ 29.99
NONW24-BPH1 2.4x night vision/illuminator	159.99
NODS-5 5x48 night vision scope w/illuminator	249.99
NOCA-42 Camera adapter	39.99
NOXG-2 3x G2 night vision scope w/illuminator	999.99
NOCA-42 Camera adapter	39.99

NORCOMM (NOR)

NC-101 Tunable CTCSS encoder	\$ 21.99
NC-104 Programmable CTCSS encoder	26.99
NC-106 Prog CTCSS encoder/decoder	62.99
NC-401 Sub-miniature DTMF decoder	62.99

Oregon Scientific (ORE)

EMR-812A Wireless thermometer	D \$ 29.99
THR-138 Extra wireless sensor; EMR812A D	19.99
PE-319 Pedometer with personal security	19.99
RGR-122 Wireless rain gauge w/LCD console	44.99
WMR-112A Wireless weather station	249.99
WMR-968 Dlx wireless WX stn w/rain gauge	299.99
WR-102 Port WX/hazard radio/SAME alert	29.99
WR-196T AM/FM/SAME WX alert clock radio D	49.99

OUTBACKER (OUT)

OB-8 75-10m 300w PEP 6' 8-band mobile ant	\$319.99
OB-BHP 75-10m 500w PEP 6' 8-band mob ant	329.99
OB-S8 75-10m 300w PEP split ant/storage bag	329.99
OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag	339.99
Joey 80-2m 20w antenna w/counterpoise	299.99
MicroMount Tripod system for Joey	49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	449.99
Perth 75-10m 150w PEP 7.5' mobile ant	329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus 75-10m+6m/2m 100w PEP 4' ant	319.99

Outbacker - continued AES Price

Outreach 160-10m 300w PEP 12' antenna ...	419.99
Outreach 500 80-6m 600w PEP 12' antenna ...	449.99
Outpost Base tripod mtg system for mobile ant	199.99
OB-SB ¼-24 spring and ½" hole base	129.99
Diamond K-400-3/8C ¼-24 trunk mt, 6' coax	69.99
Diamond C-110 10' ext cable; K-400-3/8C	14.99

Palomar Engineers (PAL)

PT-340 Tuner-Tuner (use with ant tuner)	\$ 99.99
RFI-4 RF interference kit	25.99
VLF-A VLF converter; 10-500 KHz to 80m	99.99
VLF-S VLF conv; 10-500 KHz to 4-4.5 MHz	99.99

PALSTAR (PLS)

AT-1KM 600w T-match differential tuner/crossneedle mtr	\$359.99
AT-4K 2.5kw T-match edgewound roller ind tuner	895.99
AT-1500CV 750w T-match ceramic roller ind tuner	449.99
BT-1500A 750w dual edgewound roller ind tuner	695.99

PAR (PAR)

OA-28 10m horizontal omni antenna	\$ 54.99
SK-50 Stacking harness for OA-50	29.99
SK-144 Stacking harness for OA-144	29.99
OA-222 220 horizontal omni antenna	39.99
OA-432 430 horizontal omni antenna	49.99
SK-432 Type N stacking harness; OA-432	39.99
UHFND450 440 dual band notch filter	59.99
VHFND152 2m dual band notch filter	59.99
VHFND152HT 2m dual band HT notch filter	49.99
VHFTN152-158 2m dual band+pager notch filt	82.99

PENETROX (PEN)

Penetrox A 4 oz tube for antennas	\$ 12.99
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POLICE CALL (POL)

Vol 3/4 2005 IL/IN/KY/MI/OH/WI book/48 state CD	\$ 19.99
Vol 5/8 2005 AZ/CO/IA/IN/etc book/48 state CD	19.99

POLYPHASER (PLY)

LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange	\$ 61.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt	61.99
IS-50UX-C1 50-700MHz 375/125w flange mt	61.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead	64.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead	64.99
IS-B50LU-C1 50-700 375/125w bulkhead mt	64.99
IS-IE50LU-C0 1.5-400 dx 2kw/375/125w bulkhd	69.99
IS-IE50LU-C1 50-500 dx 375/125w bulkhead	39.99
IS-IE50LN-C1 50-700 dx 375/125w N bulkhd	79.99
BF Adapter Bulkhead to flange mt adapter	3.99
FB Adapter Flange to bulkhead mt adapter	4.99
PLD0-120US15A 120v 15A power protector	159.99
PLD0-120US20A 120v 20A power protector	199.99
IS-RCT 8-wire rotor control protector	54.99
J-1 1/2" to 1 1/8" bronze transition clamp	8.99
J-2 1 1/8" to 2 1/4" bronze transition clamp	12.99
IS-SPTL Single phone line protector	57.99
CS112-25 25' 1 1/2" copper strap	25.99
CS112-50 50' 1 1/2" copper strap	49.99
CS112-100 100' 1 1/2" copper strap	99.99
CS-25 25' 3" copper strap	49.99
CS3-50 50' 3" copper strap	99.99
CU-SPGP Copper single point ground panel	69.99
TK-2 1 1/2" strap to Rohm twr corrosion free clamp	5.99
TK-3 1 1/2" strap-2 1/4" to 3 1/4" mast corr free clamp	8.99
1C-112S #6-#1 wire to 1 1/2" strap clamp bond	10.99
58R-112S 1 1/2" strap to 3/8" gnd rod clamp bond	12.99
MSC-3 Junc; 2+ 1 1/2" or 3" strap clamp bond	10.99
UNI-KIT 2CT Gnd kit; coax to alum/tin/galv	29.99
UNI-KIT 2TC Gnd kit; galv twr leg to copper	32.99
UNI-KIT 2CC Ground kit; coax to copper	28.99
CCK Copper cleaning kit; 4 oz can, brush	27.99

Polyphaser - continued AES Price

LPGS Lightning Protection/Grounding book ...	20.00
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PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant	\$ 29.99
RD-2 2m/440 2" BNC duck	14.99
RD-2SMA 2m/440 2" SMA duck	15.99
RD-8 2m/440/900 6.5" BNC duck	14.99
RD-9 2m/440/900 7" BNC duck	18.99
RD-9SMA 2m/440/900 7" SMA duck	20.99
RD-78 2m/440/900 15" BNC whip	19.99
RD-98 2m/440 17" BNC whip	24.99
RD-98SMA 2m/440 17" SMA whip	27.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ...	31.99
SPM-101 Spkr/mic for Kenwood	31.99
SPM-102 Spkr/mic; Yaesu FT-50R/VX-1R/5R	31.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu	39.99
SPM-402A Boom mic; Yae FT-50R/VX-1R/5R	39.99

PRO AM by VALOR (VAL)

ASTRO MOUNTS

AST-MMK Heavy duty 3/8-24 magnet mt kit	\$ 29.99
AST-NMO NMO mounting adapter	6.99
AST-S0239 SO-239 mounting adapter	6.99
AST-TMK Universal 3/8-24 trunk mount kit	29.99
AST-NMO NMO mounting adapter	6.99
AST-S0239 SO-239 mounting adapter	6.99

VHF/UHF ANTENNAS ONLY (No Mounts)

M0144-440 2m/440 antenna only	\$ 21.99
PADA 136-515 MHz ¼ wave antenna only	9.99
PHB-144 2m ¼ wave 3 db antenna only	29.99

MOUNTS ONLY FOR ABOVE ANTENNAS

PAM Low profile magnet mount w/coax	\$ 24.99
PAMB Black low profile mag mount w/coax ..	24.99
PAN38 ¾-24 antenna to NMO mt adapter	14.99
PAS ¾" surface mount w/coax	19.99
PASMO ¾" surface mt only (no coax)	7.99
PAS38 ¾" surface mount w/coax	4.99
PAT-2 No hole trunk mount w/coax	19.99
PAT-2B Black no hole trunk mount w/coax ..	19.99

OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN SO-239 horizontal mirror mt	\$ 10.99
101ADN HD alum mirror mt w/SO-239	10.99
105AD/105ADT Hvy duty ¾" mount assembly	6.99
105HD/105HDT Heavy duty mount assembly	3.99
301 4" low profile ¾-24 magnet mt w/coax ..	16.99
401 5" low profile ¾-24 magnet mt w/coax ..	19.99
BNC-SC-RS Suction cup extension; ducks	14.99
DAK-AD Mt for 2 vert ants or horizontal dipole	13.99
GM-144 2m 2.5db on glass antenna	29.99
GM-270 2m/440 2.6/6.3db on glass antenna	59.99
TGMKD On glass replacement mtg kit	8.99
MM-3401 Maxi-mag mt ¾-24NMO kit (3-5" mags)	59.99
SS-100MOT 3-way NMO mirror mt w/coax	23.99
CX-144 2m ¾ wave 3db ¾-24 whip	19.99
MM-270B 2m/440 micro mag mt ant w/BNC	19.99
PM-144-440BN 2m/440 BNC mag mt ant	29.99
PMM-3B Micro mag mt monitor ant w/BNC ..	19.99
TGS 30-1200MHz on-glass scanner ant	34.99
VAA-002B 144-450 black ¼ wv mag mt ant	23.99
VAA-002BBN 144-450 black ¼ wv BNC mag ant	24.99
120 Sawtooth hump mt for mobile radios	7.99
D-270 2m/440 100w duplexer	29.99

MOBILE HF ANTENNAS (No Mounts)

AB-5/PHF-SB 75/40/20/15/10m antenna	\$119.99
PHF-160B 160m 8' ¾-24 whip	89.99
PHF-75B 75m 8' ¾-24 whip (4' coil, 4' whip)	29.99
PHF-40B 40m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-30B 30m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-20B 20m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-17B 17m 8' ¾-24 whip (4' coil, 4' whip)	23.99

Pro Am - continued AES Price

PHF-15B 15m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-12B 12m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-10B 10m 8' ¾-24 whip (4' coil, 4' whip)	23.99
PHF-6B 6m 58" ¾-24 whip	23.99
103S Quick disconnect/5 twist lock connectors	24.99

QRZ (WAL)

Ham QRZ US & international calls plus programs	\$ 24.99
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QSL Card Holders (ART)

QSL Card Holders, pack of 3, 20 cards/holder	\$ 18.99
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QUEST (QUS)

1004 Astra 1 hobby rocket kit	\$ 7.49
1014 Big Betty hobby rocket kit	9.99
1604 QE-Z payloader quick kit	11.99
2001 Evader cruise missile kit	D 7.99
5721 Cyclone RTF rocket kit	D 9.99
5740 A6-4 motor flight pack (3)	6.29
5741 B6-4 motor flight pack (3)	6.79
5743 C6-3 motor flight pack (3)	7.49
5744 C6-5 motor flight pack (3)	7.49
7010 TigerTail II igniters (6)	2.99
7021 Recovery wadding (100 sheets)	2.99
7700 Complete launch system	18.99

RCA (RCA)

108 F-56 connector w/o-ring for TV coax	\$ 4.99
ACAC-5960 TV coax hex crimp tool	17.99
AH-19 6' audio cable w/RCA plugs	2.99
AH-211 25' audio cable w/RCA plugs	6.99
ANT-1020 VHF TV/UHF TV/FM indoor antenna	19.99
RP-3710 AM/FM clock radio	24.99
TA-25 25db VHF/UHF TV/FM distribution amp	19.99
VH-84 6' audio/video cable w/gold RCA plugs	5.99

RF INQUIRY (RFI)

CF250E-UHF 250w 1.8-70 common mode filt	D \$ 89.99
CF5KV-UHF 5kw 1.8-70 common mode filt	D 124.99

RF PARTS (See Diamond)

RAMSEY (RAM)

AA-7 Active antenna kit	D \$ 29.99
AR-1 Aircraft receiver kit	D 24.99
FR-1 FM broadcast receiver kit	D 16.99
HR-20 20m receiver kit	D 24.99
HR-40 40m receiver kit	D 22.99
QRP-20 20m CW transmitter kit	D 24.99
QRP-40 40m CW transmitter kit	D 24.99
RFS-1 RF sensed switch kit	D 12.99
SCA-1 SCA decoder kit	D 24.99
SR-2 Shortwave receiver kit	D 24.99
TS-1 CW touch paddle switch kit	D 4.99
UT-5 Universal timer kit	D 4.99
VS-1 Voice activated switch kit	D 6.99

Robinson Racing (RRP)

1422 48P absolute pinion 22T	\$ 4.99
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SGC (SGC)

04-01 SG-2000 150w 1.8-30 MHz Xcvr	D 1199.99
54-17 SG-231 HF+6m 12v Smartuner	D 499.99
55-48 QMS-3 Quick-mt 500w sps/SG-235	D 1699.99
05-04 SG-2020 Mini 20w PEP QRP Xcvr/mic/ADSP2	795.99
52-96 SG-500 1.8-24MHz 12v 500w PEP amp	1249.99
51-82 Fan kit; continuous duty xmit SG500	269.99
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner	489.99
54-15 SG-235 500w 1.8-30MHz 12v Smartuner	1169.99
54-18 SG-237 100w PEP HF+6m mini Smartuner	359.99
54-22 SG-239 200w Smartuner	179.99
54-61 25' extension cable; Smartuners	60.99
54-62 50' extension cable; Smartuners	90.99
54-63 SmartLock; SG230/237/239 after 9/1/93	59.99

SGC - continued

54-25 MAC-200 Smartuner/ant switch combo	249.99
54-26 SG-211 60w mini Smartuner	179.99
55-28 SG-307 1.8-60 7' mobile whip & mt ..	449.99
55-69 SG-307 whip only	265.99
55-47 QMS-2 Quick mt sys w/SG-230/303 whip	894.99
55-50 QMS-37 Quick mt sys/SG-237, less whip	549.99
55-67 Replacement whip for SG-303.....Δ	199.99
70-14 ADSP2 DSP noise reduction speaker ..	129.99

SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket	\$ 9.99
SEC-1223 23A switching ps w/fan, 24A surge	99.99
SI-175HP 175w 12vdc-115vac inverter	29.99
SI-400HP 400w 12vdc-115vac inverter	49.99
SPS-1204UL 3.5A switching ps-cig socket ..	29.99

SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case ...	\$ 79.99
ATS-505P AM/FM/SW portable receiver	129.99
ATS-606AP AM/FM/shortwave portable receiver	139.99
ATS-909 AM/FM/shortwave portable Rcvr	249.99
DT-200V AM/FM/VHF TV sound dig port Rcvr	69.99
PR-D2 AM/FM portable dark grain "Q" radio	99.99
PT-50 AM/FM/SW portable receiver	79.99
PT-80 Deluxe AM/FM/SW portable receiver	159.99
RCR-2 AM/FM atomic clock radio	69.99
WCR-1 AM/FM wooden cabinet receiver	119.99
ANT-60 Portable wind-up SWL antenna	13.99

SCANCAT (SCA)

Lite-Plus Scanner programming software	\$ 29.99
Gold for Windows Dlx scanner prog software	99.99

SEQUOIA (SEQ)

POCKET PC REF Pocket PC reference book ...	\$ 15.99
POCKET REF Pocket reference book	12.99
WinREF 98-95 Windows pocket reference book	9.99

SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount	\$ 69.99
5101 6db 8' VHF marine ant, less mount	59.99
5202 6db 8' VHF mar ant/chrome ferrule, less mt	89.99
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt	49.99
495 White plastic lift & lay mount	4.99
4187 Stainless steel ratchet mount	36.99
5215 3db 36" sailboat VHF marine ant w/mt	39.99
420 3db 5' VHF marine ant w/fold-down mt ..	69.99
PL-259-CP-G Solderless PL-259; RG-8X/58 ..	6.99
PL-258-CP-G Solderless splice; RG-8X/58	9.99

Smiley Antenna (SMI)

270A 2m/440 gain telescopic whip	\$ 19.99
270A/SMA 2m/440 gain tele whip w/SMA	19.99
5/8 SLD-2 2m 3/4 Slim Duck rubber ant	19.99
5/8 SLD-220 220 3/4 Slim Duck rubber ant	19.99
5/8 SLD-440 440 3/4 Slim Duck rubber ant	19.99
5/8 SLD-2 Combo 2m 3/4 duck & stubby ant ..	29.99
5/8 SLD-220 Combo 220 3/4 duck & stubby ant	29.99
5/8 SLD-440 Combo 440 3/4 duck & stubby ant	29.99
FLX 1/2 WAV-2M 1/2 wv 2m BNC whip/flex coil	25.99
RD-2 2m rubber duck antenna	15.99
RD-220 220 rubber duck antenna	15.99
RDMB-2 2m mini rubber duck antenna	15.99
RDMB-220 220 mini rubber duck antenna	3.99
RDMB-440 440 mini rubber duck antenna	15.99
RDS-2 2m stubby rubber duck antenna	15.99
RDS-220 220 stubby rubber duck antenna	15.99
RDS-440 440 stubby rubber duck antenna	15.99
SD-2 2m Slim Duck thin rubber antenna	15.99
SD-220 220 Slim Duck thin rubber antenna ..	15.99
SL-440 440 slimline type duck	15.99
SS-II Super Stick 2m 3/4 wv telescopic ant ..	19.99
SS-III Super Stick 220 3/4 wv telescopic ant ..	19.99

Smiley - continued

SS-IV Super Stick 440 3/4 wv telescopic ant ...	19.99
SS-II/Combo 2m 3/4 wv telescopic & stubby ant	29.99
SS-III/Combo 220 3/4 wv telescopic & stubby ant	29.99
SS-IV/Combo 440 3/4 wv telescopic & stubby ant	29.99
TAQ-2 2m 1/4 wave stainless whip	10.99
TAQ-220 220 1/4 wave stainless whip	10.99
TAQ-440 440 1/4 wave stainless whip	10.99
TS Thin Stick 2m/220 3/4 wave telescopic whip	16.99

SOLARCON (SOL)

A-99 10m/CB 17' 8" fiberglass base ant	\$ 69.99
GPK-1 Ground plane radial kit	44.99

SONY SHORTWAVE (SON)

ICF-SW07 AM/FM/SW micro Rcvr w/ps	\$399.99
ICF-SW11 AM/FM/SW compact receiver	49.99
ICF-SW12 AM/FM/SW travel Rcvr/world clock ...	89.99
ICF-SW35 AM/FM/SW portable receiver	89.99
ICF-SW40 AM/FM/SW port receiver	119.99
ICF-SW100S AM/FM/SW portable receiver	349.99
ICF-SW7600GR AM/FM/SW portable receiver	159.99
AN-LP1 Folding active loop ant w/case	89.99
DCC-E260 Mobile DC adapter; ICF-SC1 .....	.99

STICKY PAD (STI)

13810 7 1/2" x 4 1/2" sticky pad for handhelds, etc	\$ 5.99
13820 8 1/2" x 6 1/2" sticky pad for larger items	9.99

Synthetic Textiles (SYN)

100' 3/8" black double braided rope	\$ 7.99
100' 3/16" 3/8" black double braided rope	16.99
100' 5/16" 3/8" black double braided rope	22.99
350' 3/8" black double braided rope	44.99

TV GUARDIAN (TVG)

TV Guardian TV/video foul language filter	Δ \$ 59.99
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Terk Technologies (TER)

Advantage Indoor passive fine-tunable AM ant	\$ 49.99
AF-9330 Indoor AM/amplified FM tower ant D	14.99
AF-9925 Indoor AM/amplified FM loop ant ..D	29.99
FM-50 Amplified indoor/outdoor FM ant kit.Δ	24.99
HDTV-1 Indoor UHF/VHF HDTV antenna	29.99
LF-30S 2.4GHz wireless vid/aud sys/rem features	99.99
LF-IRX Remote control extender	39.99
MOD-41 Deluxe RF modulator/switch	39.99
PI-B Indoor AM/amplified FM loop antenna ..	49.99
Tower Indoor AM/amplified FM tower antenna	24.99
TSP-6 AC/TV/telephone surge protector	29.99
TV-42 Clip-on mini dish nt amp TV ant; 2 LNB dish	49.99
TV-55 Indoor/outdoor TV antenna	89.99
TV-MAST TV antenna mast mount kit .....	.99
VR-1 TV volume regulator	49.99
VS4-MOD Deluxe 4 input RF modulator/switch	49.99

TESTORS (TES)

800001 1/2 radio control mini cooper/metal ..	\$ 29.99
800002 1/2 radio control audi tt coupe/metal ..	29.99

Times Microwave (TMS)

LMR-400 Standard 3/4" coax cable	per ft. \$.70
LMR-400	500 ft. Roll 269.99
LMR-400-DB Watertight 3/4" coax cable per ft.	.79
LMR-400-DB	500 ft. Roll 309.99
LMR-400-UF UltraFlex 3/4" coax cable	per ft. 1.05
LMR-400-UF	500 ft. Roll 419.99

TIMEWAVE (TIM)

ANC-4 RF noise canceller	\$209.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	24.99
DSP-599zx All-mode DSP noise filter	436.99
AC-5 12vdc 1.7A desktop ps	24.99
PK-96/100K 9600 baud controller/128K RAM	219.99

Timewave - continued

(CSS) PKTerm for Windows Soft; PK-96/232	99.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	24.99
PK-232/PSK Multimode controller w/sound card	531.99
(CSS) PKTerm for Windows Soft; PK-96/232	99.99
AC-5 12vdc 1.7A desktop ps	24.99
HSC-99 HamHub station controller	349.99

TRAXXAS (TRX)

2410 Bandit RTR electric buggy w/TQ radio ..	\$129.99
3606 Stamped RTR electric monster truck w/ESC	174.99
3706 Rustler RTR electric stadium truck w/ESC	154.99
3710 Rustler RTR electric stadium truck w/TQ Tx	134.99
3906 E-Maxx RTR electric monster truck	334.99

TRINITY (TRN)

RC-2141 Monster horsepower stock pro	\$ 39.99
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TRIPP LITE (TRI)

PV-140 140w 12vdc-115vac inverter	D \$ 19.99
PV-150 150w 12vdc-115vac inverter	Δ 22.99
ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs	79.99
SUPER-7 7 outlet surge suppressor	19.99
SUPER-7+TEL 7 outlet/fax modem surge	29.99

TUBES (TUB)

6146B Tube	\$ 26.99
12BY7A Tube	12.99
3-500ZB-RFP High dissipation tube (3-500Z)	179.99
572B Tube	49.99
811A Tube	19.99

US TOWER (UST)**FREE STANDING CRANK-UPS (not for T'X)**

TX-438 38' crank-up tower	T 1399.99
TX-455 55' crank-up tower	T 1929.99
TX-472 72' crank-up tower	T 3169.99
TX-472MDP 72' crank-up w/motor drive	T 5099.99
TX-489MDPL 89' crank-up w/motor drive	T 8269.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower	T 1659.99
HDX-555 55' crank-up tower	T 2899.99
HDX-572MDPL 72' crank-up w/motor drive	T 7579.99
HDX-589MDPL 89' crank-up w/motor drive	T 9919.99
HDX-689MDPL 89' HD crank-up w/motor	T 19159.99
HDX-5106MDPL 106' HD crank-up w/motor T	20849.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower	T 1489.99
TMM-433HD 33' HD crank-up tower	T 1799.99
TMM-541SS 41' crank-up tower	T 1959.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower	\$ 68.99
CX-3 Coax arms (3) for 3-section tower	94.99
CX-4 Coax arms (4) for 4-section tower	139.99
CX-5 Coax arms (5) for 5-section tower	189.99
CX-6 Coax arms (6) for 6-section tower	239.99

HDP Service platform

IV-16 Inverted vee arm for MA's	51.99
M-5 2" OD 5' mast extention for MA's	51.99
M-10 2" OD 10' mast	94.99
M-15 2" OD 15' mast	129.99
M-15R 2" OD 15' reinforced mast	199.99
M-20 2" OD 20' mast	169.99
M-20R 2" OD 20' reinforced mast	249.99
CM-20 2" OD 20' cromoly mast	T 519.99

MD-75 Heavy duty 1 HP motor drive

MDP-750* Pull-down drive; TX-472/HDX-555 T	1739.99
MDPL-1000* Pull-down drive; HDX-572	T 2359.99
*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately	

MRF Mast raising fixture

MRF Mast raising fixture	329.99
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US Tower - continued

MCL-100	Limit switch package	529.99
RMC-1000	Remote control w/limit switch	1119.99
RP-3	Rotor plate for 10" section	52.99
RP-4	Rotor plate for 12 1/2" section	63.99
RP-5	Rotor plate for 15" section	70.99
TRX-80	Raising fixture; TX-438/455; HDX-538/555 T	499.99
TRX-80HD	Raising fixture; TX-472/489; HDX-572/589 T	699.99
TRX-100HD	Raising fixture; HDX-689/5106 T	899.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes	119.99

MA-SERIES TUBULAR TOWERS

MA-40	40" crank-up tubular tower	T 1109.99
MA-550	55" crank-up tubular tower	T 1719.99
MA-550MDP	55" crank-up tubular w/motor	T 3279.99
MA-770*	70" crank-up tubular tower	T 2829.99
MA-770MDP*	70" crank up tubular w/motor	T 4479.99
MA-850*	85" crank-up tubular tower	T 4379.99
MA-850MDP*	85" crank-up tubular w/motor	T 6029.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40	\$ 72.99
CX-3M	Coax arms (3) for MA-550	99.99
CX-4M	Coax arms (4) for MA-770	169.99
CX-5M	Coax arms (5) for MA-850	199.99
MA-40	Hinged base for MA-40	T 409.99
MAB-550	Hinged base for MA-550	T 519.99
MAB-770	Hinged base for MA-770	T 629.99
MAB-850	Hinged base for MA-850	T 769.99
MAF-40	Raising fixture for MA-40	269.99
MAF-550	Raising fixture for MA-550	T 369.99
MAF-770	Raising fixture for MA-770	T 379.99
MAF-850	Raising fixture for MA-850	T 499.99
MARB-40	Rotor base accessory for MA-40	T 659.99
MARB-550	Rotor base accessory for MA-550 T	769.99
MARB-770	Rotor base accessory for MA-770 T	899.99
MARB-850	Rotor base accessory for MA-850 T	1099.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Visalia, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PC-68Elite	AM Mobile CB w/WX alert	\$ 99.99
PC-68LT	AM Mobile CB w/WX alert	79.99
PC-68XL	AM Mobile CB	74.99
PC-78Elite	AM Mobile CB w/WX alert	119.99
PC-78LTW	AM Mobile CB w/WX alert	99.99
PC-78XL	AM Mobile CB	94.99
PRO-510XL	AM Mobile CB	39.99
PRO-520XL	AM Mobile CB	54.99
PRO-538W	AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-244CLT	30 ch scanner w/instant WX	\$ 99.99
BC-248CLT	50 ch scanner w/WX alert	109.99
BC-278CLT	100 ch scanner/800/SAME WX alert	139.99
BC-350C	100 ch prog/service search w/AC ps	99.99
BC-796D	1000 ch pocket/trunk/SAME WX/dig	549.99
BC-895XLT	300 ch prog scanner/trunking ..D	189.99
BC-898T	500 ch prog scanner/trunking/preprog	209.99
BCT-8	Preprog warning scan/800/trunk/AC ps	179.99
BC-003	Switch box for BC-002	..99

Uniden - continued

BCI-25D	Digital board for BC-785D/250D ..D	189.99
BC-60XLT-1	30ch prog pocket; use AA batts .	89.99
BC-80XLT	50 ch prog pocket scanner/800 ..D	119.99
BC-502	Cig power cord	11.99
BC-72XLT	100 ch pocket scanner	99.99
BC-92XLT	200 ch prog pocket scanner/800 ..	119.99
AD-100	AC adapter/batt cgr; earlier scanners	4.99
BP-200	Extra battery; BC-200XLT	26.99
BP-205	Extra battery; BC-100XLT	26.99
SC-180B	100 ch sport pocket/800 MHz	169.99
SC-200	200 ch sport pocket/800 MHz	199.99
AD-70	Extra charger	10.99
BP-120	Extra battery	18.99
LC-120	Carrying case; BC120XLT/230XLT ..	19.99
(KOS) QZ/99	Noise reduction headphones	59.99
UA-502	Cig power cord	11.99
SC-230	1600+ch pocket/800/SAME WX	199.99
BC-245XLT	300 ch pocket/trunk/smart scan D	189.99
AD-70	Extra charger	10.99
BP-180	Extra battery	16.99
CRX-120	Desk charger; BC-245XLT	24.99
LC-120	Carrying case	19.99
UA-502	Cig power cord	11.99
BC-246T	1600+ ch pocket scanner/trunking	229.99
BC-296D	1000 ch pocket/trunk/SAME WX/dig	549.99
BP-250	Extra battery	14.99
NC-250D	Carrying case	29.99
UA-502	Cig power cord	11.99
BP-2500	Extra battery; BC2500/3000	63.99

MARINE

Atlantis-250	5w VHF marine handheld	\$ 99.99
MHS-350	Waterproof 5w VHF marine handheld	149.99
Mystic	5w VHF marine handheld/GPS/DSC	339.99
Voyager	5w VHF marine handheld/lith ion batt	159.99
Oceanus-DSC	25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris	25w VHF marine Xcvr w/hailer	179.99
Solara	25w 90 ch VHF marine Xcvr	99.99
Solara-DSC	25w 90 ch VHF marine Xcvr/DSC	119.99
UM-525	25w VHF marine Xcvr w/hailer	199.99
UM-625C	25w VHF marine Xcvr/color TFT/hailer	299.99

Unified Microsystems (UNM)

VK-64	CW/voice keyer	\$229.99
KC-4	CW cable for VK-64 to transceiver	9.99
VKC-8	8-pin audio cable for VK-64 to Xcvr	24.99
XT-4	Small size CW memory keyer	69.99
KC-4	CW cable for XT-4 to transceiver	9.99
W9XT	Contest card for IBM PC & compatible	139.99
CCC-8	8-pin mic contest card cable semi-kit	44.99

UNI-SOLAR (UNS)

FLX-5	5w flexible solar cell	\$ 89.99
FLX-32	32w flexible solar cell	269.99

Universal Towers (UNT)

4-30	4 sq ft wind load 30' alum tower	T \$342.99
9-30	9 sq ft wind load 30' alum tower	T 459.99
12-30	12 sq ft wind load 30' alum tower	T 604.99
21-30	21 sq ft wind load 30' alum tower	T 719.99
23-30	23 sq ft wind load 30' alum tower	T 951.99
35-30	35 sq ft wind load 30' alum tower	T 1071.99
4-40	4 sq ft wind load 40' alum tower	T 573.99
7-40	7 sq ft wind load 40' alum tower	T 720.99
9-40	9 sq ft wind load 40' alum tower	T 802.99
12-40	12 sq ft wind load 40' alum tower	T 951.99
15-40	15 sq ft wind load 40' alum tower	T 1063.99
21-40	21 sq ft wind load 40' alum tower	T 1181.99
23-40	23 sq ft wind load 40' alum tower	T 1414.99
4-50	4 sq ft wind load 50' alum tower	T 807.99
5-50	5 sq ft wind load 50' alum tower	T 918.99
7-50	7 sq ft wind load 50' alum tower	T 1034.99

Universal - continued

9-50	9 sq ft wind load 50' alum tower	T 1149.99
15-50	15 sq ft wind load 50' alum tower	T 1527.99
16-50	16 sq ft wind load 50' alum tower	T 1648.99
4-60	4 sq ft wind load 60' alum tower	T 1150.99
6-60	6 sq ft wind load 60' alum tower	T 1411.99
7-60	7 sq ft wind load 60' alum tower	T 1502.99
9-60	9 sq ft wind load 60' alum tower	T 1611.99
3-70	3 sq ft wind load 70' alum tower	T 1500.99
4-70	4 sq ft wind load 70' alum tower	T 1844.99
6-70	6 sq ft wind load 70' alum tower	T 1877.99
7-70	7 sq ft wind load 70' alum tower	T 1962.99
3-80	3 sq ft wind load 80' alum tower	T 2023.99
4-80	4 sq ft wind load 80' alum tower	T 2342.99
2-90	2 sq ft wind load 90' alum tower	T 2426.99
B-14	Base for tower	74.99
B-18	Base for tower	74.99
B-22	Base for tower	113.99
B-26	Base for tower	143.99
Extra 14"	stubs (between base & tower)	.set 14.99
Extra 18"	stubs (between base & tower)	.set 26.99
Extra 22"	stubs (between base & tower)	.set 42.99
Extra 26"	stubs (between base & tower)	.set 42.99
RFM-11	Flat roof mt for guyed tower	49.99
RFM-14	Flat roof mt for guyed tower	49.99
RFM-18	Flat roof mt for guyed tower	77.99
RFM-22	Flat roof mt for guyed tower	103.99
RFM-26	Flat roof mt for guyed tower	138.99
R-11	Rotor mount	34.99
R-14	Rotor mount	52.99
R-18	Rotor mount	69.99

SEE LITERATURE FOR TOWER CONFIGURATIONS

11 Top	11" top tower section	T 116.99
14 Top	14" top tower section	T 149.99
18 Top	18" top tower section	T 264.99
14 Taper	14" taper tower section	T 128.99
18 Taper	18" taper tower section	T 230.99
22 Taper	22" taper tower section	T 343.99
26 Taper	26" taper tower section	T 461.99
11 Straight	11" straight tower section	T 114.99
14 Straight	14" straight tower section	T 128.99
18 Straight	18" straight tower section	T 230.99
22 Straight	22" straight tower section	T 343.99
26 Straight	26" straight tower section	T 461.99
HD35-40	35 sq ft wind load 40' alum tower	T 1651.99
HD21-50	21 sq ft wind load 50' alum tower	T 1761.99
HD9-60	9 sq ft wind load 60' alum tower	T 1847.99
HD16-60	16 sq ft wind load 60' alum tower	T 2224.99
HD21-60	21 sq ft wind load 60' alum tower	T 2344.99
HD8-70	8 sq ft wind load 70' alum tower	T 2078.99
HD12-70	12 sq ft wind load 70' alum tower	T 2574.99
HD17-70	17 sq ft wind load 70' alum tower	T 2808.99
HD21-70	21 sq ft wind load 70' alum tower	T 2926.99
HD8-80	8 sq ft wind load 80' alum tower	T 2659.99
HD9-80	9 sq ft wind load 80' alum tower	T 2773.99
HD11-80	11 sq ft wind load 80' alum tower	T 3151.99
HD12-80	12 sq ft wind load 80' alum tower	T 3157.99
HD16-80	16 sq ft wind load 80' alum tower	T 3388.99
HD4-90	4 sq ft wind load 90' alum tower	T 2769.99
HD8-90	8 sq ft wind load 90' alum tower	T 3267.99
HD11-90	11 sq ft wind load 90' alum tower	T 3736.99
HD4-100	4 sq ft wind load 100' alum tower	T 3709.99
HD8-100	8 sq ft wind load 100' alum tower	T 3969.99
B-30	Base for HD tower	211.99
Extra 30"	stubs (between base & tower)	.set 63.99
RFM-30	Flat roof mt for guyed tower	193.99
30 Taper	30" taper tower section	T 581.99
30 Straight	30" straight tower section	T 581.99

Universal - continued AES Price

SEE LITERATURE FOR TOWER CONFIGURATIONS

1-5/8SC Flange bearing	94.99
2-3/16SC Flange bearing	108.99
Top Plate Flange plate welded to top section	25.99
1-1/4" OD x 5 ft aluminum mast	23.99
1-1/4" OD x 10 ft aluminum mast	35.99
1-1/2" OD x 10 ft aluminum mast	43.99
2" OD x 8 ft aluminum mast	52.99
2" OD x 16 ft aluminum mast	96.99

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shippings we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck. COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

VALOR (See PRO AM)

VANCO (VCO)

370052 3 1/2 digit multimeter	\$ 19.99
HF-24RS Scanner headphones w/dual volume	19.99
SWR-1 SWR/field strength meter	24.99
SWR-3 Mini SWR meter	14.99

VAN GORDEN (VAN)

Hi-Q 1:1 balun	\$ 14.99
Hi-Q 4:1 balun	14.99
Antenna center insulator	6.99
Antenna end insulator	4.99
Dog bone type antenna insulator .....	.99
NR-1000 Nylon antenna guy rope	100 ft. 4.99
NR-1000 Nylon ant guy rope	1000 ft. 44.99
D-80 80m 130' wire dipole antenna	32.99
SD-80 Short 90' 80m wire dipole antenna	36.99
D-40 40m 66' wire dipole antenna	29.99
SD-40 Short 45' 40m wire dipole antenna	34.99
D-20 20m 33' wire dipole antenna	28.99
D-15 15m 22' wire dipole antenna	27.99
D-10 10m 16' wire dipole antenna	26.99
PD-4010 40/20/15/10m 66' parallel dipole	38.99
PD-4020 40/20/15m 66' parallel dipole	34.99
PD-8010 80/40/20/15/10m 130' parallel dipole	44.99
PD-8040 80/40/15m 130' parallel dipole	40.99
All Bander Dipole 160-10m (use tuner) 135' ant	29.99
Shorty All Bander 160-10m (use tuner) 70' ant	44.99
CSVR Flat-top 3.5-30 102' ant/xmfr/100' cable	50.99
G5RV-E Flat-top 3.5-30 102' ant/31' twinlead	28.99
G5RV-JR Flat-top 7-30 52' ant/17' twinlead	24.99
G5RV-M Flat-top 1.8-30 204' ant/65' twinlead	50.99
N connector Type N connector for 9913/8214	4.99
#14 Stranded hard drawn ant wire	100 ft. 11.99
#14 Stranded hard drawn ant wire	150 ft. 16.99
300 ohm 1kw transmitting twinlead	100 ft. 19.99
450 ohm 18ga solid ladderline	100 ft. 14.99
450 ohm 18ga solid ladderline	100 ft. 109.99
450 ohm 14ga stranded ladderline	100 ft. 29.99
450 ohm 14ga stranded ladderline	1000 ft. 229.99
(WA1) WA1FFL Ladder-Loc 450 ohm ctr ins	12.99
RG-213 Non-contaminating	per ft. .49
RG-213/500 Non-contaminating .500 ft. Roll	179.99
8X-1.5ST 1.5' RG-8X coax/silver teflon PL259s	7.99
8X-3ST 3' RG-8X coax/silver teflon PL259s	8.99
8X-6ST 6' RG-8X coax/silver teflon PL259s	10.99
8X-12ST 12' RG-8X coax/silver teflon PL259s	11.99
8X-25ST 25' RG-8X coax/silver teflon PL259s	15.99

Van Gorden - continued AES Price

8X-50ST 50' RG-8X coax/silver teflon PL259s	24.99
8X-75ST 75' RG-8X coax/silver teflon PL259s	31.99
8X-100ST 100' RG-8X coax/silver teflon PL259s	37.99
213-25ST 25' RG-213 coax/silver teflon PL259s	25.99
213-50ST 50' RG-213 coax/silver teflon PL259s	38.99
213-75ST 75' RG-213 coax/silver teflon PL259s	54.99
213-100ST 100' RG-213 coax/silver teflon PL259s	72.99

VECTRONICS (VEC)

VC-300M 300w mobile antenna tuner	\$ 99.99
VC-300DLP 300w antenna tuner	149.99
VC-300 300w digital antenna tuner	169.99
HFT-1500 1.5kw antenna tuner	399.99
AT-100 3-30 MHz active antenna/tuner	79.99
HPF-1 High pass filter, 75 or 300 ohms	24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms	29.99
LP-30 1.5kw low pass filter	69.99
LP-2500 2.5kw low pass filter	129.99
DL-300M 300w 150MHz dummy load	44.99
DL-650M 1.5kw 650MHz dummy load	74.99
DL-2500 2.5kw 150MHz dummy load	179.99
PM-30HF 300/3kw HF wattmeter	79.99
PM-30UV 30/300w VHF/UHF wattmeter	89.99
121K Crystal radio set kit	19.99
131K Aircraft receiver kit	29.99
201K CW keyer kit	24.99
412K Nicad/NiMH battery conditioner kit	14.99
422K FM broadcast SCA decoder kit	27.99
830K Super SSB audio filter kit	19.99
841K Tunable SSB/CW audio filter kit	34.99
1140K 40m receiver kit	29.99
1240K 40m QRP CW transmitter kit	29.99
1290K AM radio transmitter kit	29.99
1294K TV transmitter kit	27.99

VELLEMAN (VEL)

AVW-089 3 channel audio/video switcher	\$ 8.99
DVM-810 3 1/2 digit digital multimeter	9.99
DVM-850BL Deluxe 3 1/2 digit DMM w/holder	19.99
VT-COA Coax stripper; RG-58/59/62/6	14.99
VT-LAMP20 Hobby magnifier lamp w/table mt	49.99
VT-SET3N 6-pc electronics screwdriver set	7.99
VT-SET21N 8-in-1 screwdriver set	4.99
VT-TS 25-piece hobbyist tool set	9.99

VIBROPLEX (VIB)

090 Original Gold Bug	\$309.99
100 Original Presentation Super deluxe bug	269.99
105 Original Deluxe Bug	199.99
110 Original Standard Bug	169.99
113 VibroKeyer Gold Paddle	279.99
115 VibroKeyer Deluxe Paddle	184.99
120 VibroKeyer Standard Paddle	149.99
123 Iambic Gold Paddle	279.99
125 Iambic Presentation Paddle	249.99
130 Iambic Deluxe Paddle	189.99
135 Iambic Standard Paddle	149.99
145 Triangular Brass Racer Iambic paddle	129.99
150 Square Brass Racer Iambic paddle	139.99
153 Gold straight key	279.99
155 Standard straight key	149.99
160 Deluxe straight key	189.99
162 Gold Hand key/Iambic Paddle double	369.99
163 Gold Hand key/VibroKeyer Paddle double	369.99
165 Deluxe Hand key/Iambic Paddle double	329.99
170 Dix Hand key/VibroKeyer Paddle double	329.99
175 Standard Hand key/Iambic Paddle double	279.99
180 Std Hand key/VibroKeyer Paddle double	219.99
185 Square Racer Deluxe Iambic paddle	129.99
190 Square Racer Standard Iambic paddle	109.99
195 Blue Racer 2000 Std Millennium Bug	189.99

Vibroplex - continued AES Price

198 Blue Racer 2000 Dix Millennium Bug	209.99
200 Code Warrior Junior Paddle	99.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach	\$ 12.99
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W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor	\$ 24.99
W2AU 4:1 160-10m balun, lightning arrestor	24.99
W2AU Beam Balun, 1:1	24.99
W2DU-HF 1:1 1.8-30 MHz choke balun	26.99
W2DU-VHF 1:1 30-250 MHz choke balun	26.99
W2DU Beam Balun 40-10m 1:1 choke balun	26.99
HA AN-sulator center insulator	9.99
HE END-sulator end insulators	pair 6.99
KW-80CW Reyco 80m CW ant traps	pair 48.99
KW-80F Reyco 75m phone ant traps	pair 48.99
KW-40 Reyco 40m antenna traps	pair 42.99
KW-30 Reyco 30m antenna traps	pair 42.99
KW-20 Reyco 20m antenna traps	pair 41.99
KW-17 Reyco 17m antenna traps	pair 41.99
KW-15 Reyco 15m antenna traps	pair 41.99
KW-12 Reyco 12m antenna traps	pair 41.99
KW-10 Reyco 10m antenna traps	pair 41.99
W2AU/W2VS 5-band ant kit (use tuner)	85.99

W4RT (W4R)

Antenna Boss interface; motor ant/FT100/847/57/97	\$149.99
Antenna Boss II interface; motor ant/IC-706/etc (LDG) K-OTT Kenwood 1-touch tune interface	59.99
KB-2 Cable for Ant Boss II w/LDG K-OTT	10.99
YB-OTT FT-100/817/857/897 interface	59.99
YB-2 Cable for Ant Boss II w/W4R YB-OTT	10.99
OBP-STD Speech compress; 817/475/797 handmic	49.99
OBP-UNIV Speech compress; C706/FT100 handmic	49.99
OPF-CW 500Hz Collins CW filter; FT817/57/97	114.99
OPF-SSB 2.3kHz Collins SSB filter; FT817/57/97	129.99
OTT-897 One-touch tune; FT-817/857/897	64.99

W5YI (W5Y)

BCOM Basic Communications Electronics book	\$ 17.99
BDIG Basic Digital Electronics book	17.99
BELC Basic Electronics book	17.99
ECS-02 Extra upgrade software/manual/code	39.99
GR0L Commercial license elements 1/3/8 manual	39.99
GRSP Commercial study software w/GR0L book	69.99
GSTD Getting Started in Electronics book	17.99
GU04 General upgrade software/manual/code	39.99
GW05 Gordon West 6 ea 0-5 wpm code tapes	29.99
GW13 Gordon West 6 ea 5-16 wpm code tapes	29.99
GW20 Gordon West 6 ea 18-28 wpm code tapes	29.99
GWCT Gordon West refresher code course audio CDs	14.99
GWEM-02 Gordon West Extra study manual	19.99
GWEE-02 Gordon West 6 ea Extra theory audio	29.99
GWGM-04 Gordon West General study manual	17.99
GWGW-04 Gordon West 4 ea General theory audio CDs	24.99
GWTM-03 Gordon West Tech study manual	15.99
GWTW-03 Gordon West 6 ea Tech theory audio	34.99
HOS-04 Ham operator software/code (all classes)	39.99
HOSB-04 Ham op soft/code/3 books (all classes)	79.99
Mini-1 Timer, op amp & optoelectronics	10.99
Mini-2 Science & communications	10.99
Mini-3 Electronic sensors	10.99
Mini-4 Electronic formulas, symbols & circuits	10.99
NCS-03 Technician software w/manual	39.99
TPG-04 Tech/General software/manuals/code	59.99
WMC 0-48 wpm code software	14.99

WAHL (WAH)

7740 Quick charge cordless soldering iron kit	\$ 51.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	38.99

	AES Price
Watson Guptill (WAT)	
077942 2005 World Radio TV Handbook	\$29.95

WELLER (WEL)	
7200PK 75w soldering gun kit	\$29.99
7235 Extra standard tips (2) for 7200PK	3.99
SP-23LK 25w soldering iron kit	18.99
WP-25 25w professional soldering iron	35.99
ST-4 3/8" screwdriver tip for WP-25	4.99
ST-5 1/2" single flat tip for WP-25	4.99
W-60P 60w temp controlled soldering iron	66.99
CT-5E7 3/8" screwdriver tip for W-60P	6.99
WESD51 50w adjustable soldering station	149.99
WSTA3 Pyrophen portable LP soldering iron	99.99
WST2 Pyrophen Jr. portable butane iron	89.99
WTCTP 60w temp controlled soldering stn	119.99

West Mtn Radio (WES)	
PG-40 PWRgate simple backup power system	\$69.99
RB/PR/C Rigblaster Pro; 8-pin/RJ-45	249.99
RB/PL/C Rigblaster Plus; 8-pin/RJ-45	139.99
RB/NO/CU Rigblaster nomie universal; 8-pin/RJ-45	59.99
RB/NO/RJC Rigblaster no mic for RJ-45	49.99
RB/NO/FT100 Rigblaster nomie; Yae modular 6 D	39.99
RR/4010S/C Rigrunner FET Soutlet/cbl/connectors	119.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	112.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	92.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	59.99
C30/PK/12 12pr PowerPole 30A connectors	10.99
PWR/Mtr W/V/A/H meter for PowerPole	69.99
PWR/Tool PWRcrimp PowerPole crimp tool	49.99
Whatt Meter W/V/A/H meter for any PowerPole D	59.99

Wiley Publishing (WIE)	
HR for Dummies Ham Radio for Dummies	\$21.99
Astro Dummies Astronomy for Dummies	19.99

WILSON (WIL)	
FGT-4/BLK 4' black fiberglass CB whip	\$27.99
FGT-4/WHI 4' white fiberglass CB whip	27.99
Little WII Magnetic mt CB antenna	31.99
Trucker 2000 Black mobile 3/4-24 CB whip	54.99
W-1000 Magnetic Black mobile CB antenna	76.99
W-1000 Roof Top Black mobile CB antenna	57.99
W-1000 Trunk Lip Black mobile CB antenna	65.99

WINEGARD (WIN)	
CX-0625 25' RG-6 TV coax w/F connectors	\$10.99
CX-0650 50' RG-6 TV coax w/F connectors	15.99
CX-0675 75' RG-6 TV coax w/F connectors	19.99
CX-6100 100' RG-6 TV coax w/F connectors	24.99
PR-7010 22 el 66.5" boom Prostar TV ant	39.99
PR-7032 33 el 103.25" boom Prostar TV ant	64.99
PR-7042 43 el 149.75" boom Prostar TV ant	99.99
TV-2900 Outdoor TV matching transformer	2.99

YAESU (YAE)	
FT-1000MP Mk V 200w HF Xcvr/EDSP/tuner/ps	Call/Web
Mk V Field 100w HF Xcvr/EDSP/tuner/ps	Call/Web
DVS-2 Digital voice recording module	239.99
EDC-20 Extra DC cable; Field	18.99
FH-1 Remote control keypad	94.99
FTV-1000 200w 6m transverter; Mk V	949.99
FP-29 30vdc ps; FTV-1000 w/orig MP/Field	539.99
FRB-5 Relay board; FTV-1000 w/orig MP	65.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-31B8 Extra hand microphone	49.99
SP-8 External speaker w/filters	174.99
LL-7 Phone patch unit for SP-8	149.99
T-9018320 Extra DC cable; Field	26.99
TCXO-6 Deluxe TCXO unit, 0.5 ppm	189.99

Yaesu - continued	AES Price
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-110CN 250 Hz 3rd IF main Rcvr CW filt	159.99
YF-110SN 2 KHz 3rd IF main Rcvr SSB filt	159.99
YF-114CN 250 Hz 2nd IF main Rcvr CW filt	159.99
YF-114SN 2 KHz 2nd IF main Rcvr SSB filt	159.99
YF-115C 500 Hz CW Collins mech filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-847 HF/6m/2m/430 Earth Station Xcvr/mic	Call/Web
(W4R) Antenna Boss interface; other mfr mot ant	179.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ATAS-120 HF/6/2/430 motorized mob ant	319.99
ATBK-100 Antenna base kit; use w/base mt	99.99
CT-39A Packet cable	11.99
CT-61 Interface cable; FT-847 to amp	15.99
EDC-20 Extra DC cable	18.99
FC-20 Automatic antenna tuner	289.99
FVS-1A Voice synthesizer	49.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36B8 TTP mobile microphone	69.99
MMB-66 Mobile mounting bracket	44.99
SP-8 External speaker w/filters	174.99
T-9018320 Extra DC cable	26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-115C 500Hz Collins CW filter	169.99
YF-115S-02 2.5KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-840 HF Xcvr/SW Rcvr/mic	Call/Web
EDC-20 Extra DC cable	18.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
FC-10 External coax fed auto tuner	399.99
FC-800 External long wire auto tuner	469.99
FIM-232C Interface for RS-232	99.99
FM-747 FM unit	69.99
MD-100A8X* Desk mic w/tone control	139.99
*Cable needed for FT-840; contact service for info	
MD-200A8X Deluxe high fidelity desk mic	399.99
MLS-100 Mobile speaker	49.99
MMB-20 Mobile mount	39.99
SP-6 External speaker w/filter	154.99
T-9018320 Extra DC cable	26.99
TCXO-4 TCXO unit	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-112A 6 KHz AM filter	129.99
YF-112C 500 Hz CW filter	129.99
YH-77STA Open-air type stereo headphones	59.99
FT-897D HF/6m/2m/430 port/base Xcvr/TCXO	Call/Web
(BET) Yae Tune Control for FT-897 series	44.99
(W4R) Antenna Boss interface; other mfr mot ant	179.99
(W4R) OTT-897 One-touch tune; 817/857/897	64.99
FP-30 Internal power supply	229.99
ADMS-4B Windows programming software	59.99
ATAS-120 HF/6/2/430 motorized mob ant	319.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2" port ant	249.99
CT-39A Packet cable	11.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner; bolts to FT-897	199.99
FC-40 Automatic antenna tuner	299.99
FNB-78 4.5ah NiMH batt (will accept 2)	129.99
CD-24 4-hr charge adapter for FN-78	129.99
PA-26B 110vac charger for CD-24	89.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	69.99
MLS-100 Mobile speaker	49.99
MMB-80 Mobile mounting bracket	39.99

Yaesu - continued	AES Price
SP-6 External speaker w/filter	154.99
T-9023225 Extra DC cable	26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-857D Mini HF/6m/2m/430 Xcvr/DSP	Call/Web
(BET) Yae Tune Control for FT-857 series	44.99
(W4R) Antenna Boss interface; other mfr mot ant	179.99
(W4R) OTT-897 One-touch tune; 817/857/897	64.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ADMS-4B Windows programming software	59.99
ATAS-120 HF/6/2/430 motorized mob ant	319.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2" port ant	249.99
CT-39A Packet cable	11.99
CT-58B Band data cable; Yaesu amplifier	34.99
CT-62 CAT interface cable	34.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner	199.99
FC-40 Automatic antenna tuner	299.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	69.99
MLS-100 Mobile speaker	49.99
SP-6 External speaker w/filter	154.99
T-9023225 Extra DC cable	26.99
TCXO-9 TCXO unit, 0.5 ppm	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
YSK-857 Separation kit	59.99
FT-817ND 5w HF/6/2/430 Xcvr/FNB85/NC7B2	Call/Web
(W4R) OTT-897 One-touch tune; 817/857/897	64.99
ADMS-4A Windows programming software	59.99
ATAS-25 40/20/15/10/6/2/430 7.2" port ant	249.99
CSC-83 Soft case w/side pocket for FT-817	29.99
CT-39A Packet cable	11.99
CT-62 CAT interface cable	34.99
EDC-6 Extra DC cord; plug & wire only	8.99
FNB-72 9.6v 1000mah nicad battery	39.99
FNB-85 9.6v 1400mah NiMH battery	69.99
MH-36E8J TTP mic	69.99
MLS-100 Mobile speaker	49.99
NC-72B Extra nicad wall charger	19.99
TCXO-9 TCXO unit, 0.5 ppm	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
DSP-2 DSP unit for original FT-857	59.99
FM-1 FM unit for FT-920	69.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
MMB-67 Quick release bracket; FT-100D	42.99
T-9021925 Extra DC cord; FT-100D	29.99
TCXO-7 TCXO unit for FT-920	109.99
XF-117A 6 KHz AM filter; FT-100D	129.99
XF-117CN 300 Hz CW filter; FT-100D	99.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	159.99
YA-30 1.8-30 MHz broadband dipole ant	259.99
YF-116A 6 KHz AM filter for FT-920	129.99
YF-116C 500 Hz CW filter for FT-920	129.99
YH-77STA Open-air type stereo headphones	59.99
YSK-100 Separation kit for FT-100D	89.99
Quadra System VAMP1000 HF+6m amp/tuner	3999.99

Yaesu - continued AES Price

FRG-100B 1-30 MHz shortwave receiver	599.99
FIF-232C Interface for RS-232	99.99
FM Unit-100 FM unit	49.99
TCXO-4 TCXO unit	109.99
YF-110CN/XF-F 250 Hz CW xtal filter	159.99
YF-115C 500 Hz CW Collins mech filter	169.99
VR-120D 1.1MHz-1.2995GHz AM/FM hand/cell bkld	199.99
CA-34 Charger sleeve; NC-82/VR-120D	5.99
CSC-76 Soft case for VR-120/D	19.99
CT-35 Clone cable; VR-120/D	4.99
EDC-15 DC adapter	39.99
FNB-79 Nicad battery for VR-120D	10.99
NC-82 Charger stand	10.99
PA-30B AC adapter	8.99
VR-500 1M-1.3G AM/FM/SSB hand/cell bkld	299.99
ADMS-3 Windows programming software	39.99
CSC-72 Soft case for VR-500	19.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC adapter; plug & wire only	8.99
FNB-59 Nicad battery for VR-500	29.99
NC-60B Wall charger	16.99
VR-5000 1M-2.6G base rcvr AM/FM/SSB/cell bkld	599.99
DSP-1 DSP unit	99.99
DVS-4 Digital voice recorder	49.99
FVS-1A Voice synthesizer	49.99
E-736 DC cable for FT-736R	19.99
FT-7800R 50w 2m/40w 440 FM Xcvr	Call/Web
ADMS-2K Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
T-9021715 Extra DC cable	12.99
YSK-7800 Remote separation kit	59.99
FT-8800R 50w 2m/35w 440 FM Xcvr	Call/Web
ADMS-21 Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr	Call/Web
ADMS-2H Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
AD-3 100w 2m/440 duplexer	59.99
ADMS-2E Windows prog soft; FT-2600M/90R	39.99
ADMS-2F Windows prog software; FT-1500M	39.99
ADMS-2G Windows prog soft; FT-7100M	39.99
FRC-6 DTMF pager; 2400M/2500M/7400H	29.99
RA-0131900 Extra mobile bracket; FT-90R	4.99
RA-0242900 Extra mobile bkt; FT-1500M	9.99
YSK-90 Remote separation kit; FT-90R	59.99
YSK-7100 Rem separation kit; FT-7100M	69.99
YSK-8100 Rem separation kit; FT-8100R	74.99
FT-2800M 65w 2m FM Xcvr w/TTP mic	Call/Web
ADMS-2J Windows programming software	39.99
MLS-100 Mobile speaker	49.99
S-8002051/MMB-83 Extra mobile bracket	4.99
S-8101436 Extra DC cable	7.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
HRI-100 WIRES II interface box	149.99
LF-1 Mobile 13A DC noise filter	29.99
MLS-100 Mobile speaker	49.99
VXR-7000VA Vertex 50w 2m FM AC/DC rpt	1269.99

Yaesu - continued AES Price

VX VPL-1 Repeater programming cables	87.99
Repeaters require service dept set-up; \$45 minimum	
Accs for FT-23/33/73/41/81/11/470/911	
CSC-24S Soft case; FT-23/33/73 w/FNB-12S	19.99
CSC-35 Soft case; FT-41/81/911/FNB-17	29.99
FBA-17 AA battery holder	19.99
FNB-12S 12v 600mah 5w battery	59.99
FNB-17 7.2v 600mah battery	39.99
NC-34B Wall charger for FNB-14	1.69
CA-15 Charging stand; NC-60B; FT-10/50	29.99
CLIP-10 Spring loaded belt clip; FT-50	8.99
CSC-68 Soft case; FT-50/FNB-41/FBA-15	18.99
CSC-V10 Cordura soft case; FT-10/40/50	26.99
FBA-15 4-AA battery holder; FT-50RD	19.99
FBA-21 6-AA battery holder; FT-50RD	39.99
FEF-10 Earphone; FT-50RD/VX-1R	11.99
FNB-41 9.6v 600mah 5w battery; FT-50RD	59.99
FNB-V47 7.2v 1100mah battw/belt clip; FT-50	59.99
PA-17 Battery cable extender; FT-50RD	19.99
LCC-10S Leather case/swivel; 50/FNB41/V47	34.99
MH-30C2B Speaker/mic; FT-50RD	29.99
NC-50 1-hour dual slot charger; FT-50RD	99.99
CA-14 2 charging sleeves; NC-50	29.99
FT-60R 5w 2m/440 FM HT	199.99
ADMS-1J Windows programming software	39.99
NC-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	19.99
FNB-83 7.2v 1400mah NiMH battery	59.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
VAC-370 Rapid charger	69.99
VC-25 VOX headset	69.99
VX-150 5w 2m FM HT/batt/cgr/16-key TTP	Call/Web
ADMS-1F Windows programming software	39.99
NC-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	19.99
FNB-V57 7.2v 1100mah battery	49.99
FNB-64 Extra 7.2v 700mah battery	36.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	36.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
NC-72B Extra wall charger	19.99
VAC-400B 1-hour desk top rapid charger	69.99
VC-25 VOX headset	69.99
CSC-71 Soft case for VX-1R	9.99
FBA-20 Battery holder for VX-1R	19.99
FNB-52LI 3.6v 700mah lith ion batt; VX-1R	39.99
NC-66B Extra 2 hour wall charger; VX-1R	19.99
VX-2R 1.5w 2m/1w 440 submini HT/lith ion	Call/Web
ADMS-1H Windows programming software	39.99
NC-3 BNC to SMA adapter	11.99
CSC-90 Soft case	16.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	39.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	34.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
VC-25 VOX headset	69.99

Yaesu - continued AES Price

VX-5R Black 5w 6m/2m/4.5w 440 HT/lith ion	Call/Web
VX-5RS Silver 5w 6m/2m/4.5w 440 HT/lith ion	Call/Web
ADMS-1E Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
NC-3 BNC to SMA adapter	11.99
CSC-73 Soft case	19.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	69.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
NC-72B Extra wall charger	19.99
Q-3000166 Replacement duck ant	30.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-25 VOX headset	69.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	Call/Web
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	Call/Web
ADMS-1G Windows programming software	39.99
CT-91 Microphone adapter	12.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	59.99
NC-3 BNC to SMA adapter	11.99
CSC-88 Soft case	14.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	69.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	19.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-27 Earpiece/microphone	34.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	259.99
G-550 12 sq ft elevation rotor/6-wire	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor/26-wire	629.99
GA-3000 Tower absorber joint; G-1000/2800	129.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1 1/2" x 2"	39.99
GS-065 65mm thrust bearing; mast 1 1/2" x 2 1/2"	54.99
GS-232B Computer interface; DXA rotors	569.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99
Sep Kit Separation kit for G5500	29.99

See BELDEN for rotor cable

CONSUMER ELECTRONICS

VXA-700 Spirit 5w air handheld/2m FM ham	\$419.99
FNB-53 Nicad battery pack; Yaesu FRS	69.99

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CLOSE-OUTS

AES Price

ALI EJ-40U	Dig board; DR-135T/TP/235T/435T	\$ 79.99
ALI EJ-43U	Digital board for DJ-596T	69.99
ALP Pathfinder	1.8-30+6m dig auto ant tuner	299.99
ANX GPSU-15GBNC	GPS mag mt ant/coax/BNC	79.99
AOR SDU-5500	Spectrum disp unit/PC interf	999.99
B&W ACS-1.8-30	Continuous 1.8-30 stainless vee	329.99
B&W ACS-5-30	5-30 MHz stainless 65' folded dip	219.99
B&W AP-10A	51" port 40/20/15/10/6/2m ant	89.99
B&W AT-55	40/20/15/10m 55' trap dipole ant	89.99
BEL 9251	RG-8A (non-contam) .. 500 ft. Roll	269.99
BEN BY-3	Iambic keyer paddle, gold plated ..	299.99
BUS 10-1907	Speedster sports speed gun	199.99
BUS 78-0040	90mm refractor telescope	359.99
BUS 78-0200	4.5" reflector telescope	269.99
CEL 11015	Celestar 8 telescope	999.99
CEL 21086	FirstScope 80EQ refractor telescope	299.99
CEL 22062	NexStar 60GT telescope	249.99
CEL 22082	NexStar 80GT telescope	349.99
CEL 31034	Tabletop 76 reflector telescope	99.99
CEL 31142	NexStar 114GT reflector telescope	399.99
CEL 52211	60mm wildlife zoom spot scope/tripod	149.99
CEL 93501	Heavy duty tripod	299.99
COB 21LTD ST	Sound Tracker AM Mobile CB ..	69.99
DAV 6150	Wireless Vantage Pro weather station	499.99
DAV 7866	Weatherlink Mac interface/software	69.99
DIA F-718L	420-430 11.5db ATV N base ant	169.99
DIA X-700HA	2m/440 9.3/13db 24' base ant	349.99
GAR 010-10215-00	MapSource US road&rec CD	69.99
GAR StreetPilot III Deluxe	GPS	699.99
GRU G-4000A	Port AM/FM/SW receiver w/ps	149.99
GRU Yacht Boy 400PE	Port AM/FM/SW/Rcvr/ps	149.99

Close-Outs - continued AES Price

IAC 160m-S	160m half sloper 127' antenna	99.99
IAC 80m double Bazooka	Shorty 84' antenna	139.99
IAC 80m-S	80m half sloper 67' antenna	79.99
IAC 40m double Bazooka	Shorty 40' antenna	99.99
ICO BC-119-N21	Nicad/NiMH desk cgr; T81A ..	89.99
ICO BC-144-01/21/N51	Desk cgr/adap; not Nseries	79.99
ICO BP-83	7.2v 600mah battery	79.99
ICO BP-84	7.2v 1000mah battery	99.99
ICO BP-157A	7.2v 900mah battery	79.99
ICO BP-174	12v 600mah battery	69.99
ICO BP-200L	9.6v 760mah NiMH batt; T81A	79.99
ICO BP-211	7.4v 1800mah lith ion battery ..	89.99
ICO EX-1759	Infrared receiver	89.99
ICO HM-90A	Wireless microphone	99.99
ICO R-8500-02	.1M - 2G receiver/cell blocked	1579.99
ICO UT-66	Voice synthesizer; IC-775DSP	69.99
ICO UT-84	Tone squelch unit; 2700H/821H	79.99
ICO UT-89	Tone scan/decode unit; IC-2350H	89.99
KEN DFK-7	Dlx 22' rem cable kit; 642/742AD	89.99
KEN PB-33	6v 1200mah battery; TH-22ATH ..	79.99
KEN PB-34	9.6v 600mah 5w batt; TH-22ATH	89.99
KEN PS-52	Heavy duty ps; TS-870S	269.99
KEN SP-31	External speaker; TS-870S	99.99
KEN SP-950	Ext spkr/audio filters; TS-950SDX	149.99
KEN TM-461A	35w 440 FM Xcvr w/TTP mic	429.99
KEN UT-50S	50w 6m unit; 642/742AD	329.99
KEN UT-220S	25w 220 MHz unit; 742AD	329.99
KEN UT-1200	10w 1.2 GHz unit; 642/742AD	399.99
KEN YG-455C-1	500 Hz CW filter; TS-450/690	149.99
LOS A0014	XXX-4 4WD electric Competition buggy kit	239.99
MAG SporTrak Color	Handheld color GPS/GMB	299.99
MFJ 498	Dix CW keyboard/kyr w/disp/keyboard	139.99
MFJ 781	DSP filter for any TNC or controller	69.99

MFJ 1040B	Deluxe receiver preselector	99.99
MFJ 1262	Microphone switch; 8-pin round	69.99
MFJ 1278B	Multi-mode controller w/Pactor ..	279.99
MFJ 9140B	9040 Xcvr/tuner/ps/ant package	229.99
MIR KP-1/10M	10m in shack preamp	89.99
MIR KP-2/10M	10m mast mount preamp	99.99
MIR KP-2/220	220 mast mount preamp	99.99
MIR MP-3	420-450 5/50/150w PEP wattmeter	189.99
MSQ 10M-4DX	10m 8.7db 4el 23' bm beam	399.99
MSQ 12M-4DX	12m 8.6db 4el 27' bm beam	329.99
MSQ 17M-5DX	17m 8.6db 5el 36' bm beam	429.99
MSQ 902-18EZ	900MHz 14.8db 18el 5'4" boom	149.99
MSQ FAST MAST	20' extended port alum mast	99.99
PLY IS-IE50LN-C1	50-700 dtk 375/125w N bulkhd	79.99
PLY IS-IE50LU-C0	15-400 dtk 2kw/5/125w bulkhd	69.99
RFI CF5KV-UHF	5kw 1.8-70 commonmode filt	124.99
SGC 04-01	SG-2000 150w 1.8-30 MHz Xcvr	1199.99
SGC 54-17	SG-231 HF+6m 12v Smarttuner	499.99
SGC 55-48	QMS-3 500w antenna system	1699.99
SGC 55-67	Replacement whip for SG-303	199.99
UNI BC-245XLT	300 ch pocket/trunk/smart scan	189.99
UNI BC-895XLT	300 ch prog scanner/trunking	189.99
UNI BCI-25D	Digital board; BC-785D/250D ..	189.99
UNI Polaris	25w VHF marine Xcvr w/hailer	179.99
UNI SC-180B	100 ch sport pocket/800 MHz	169.99
UNI SC-200	200 ch sport pocket/800 MHz	199.99
VIB 180	Std Hand key/VibroKeyer Paddle double	219.99
YAE GA-3000	1w absorber joint; G-1000/2800	129.99
YAE TCX0-7	TCX0 unit; FT-920	109.99
YAE XF-117A	6 KHz AM filter; FT-100D	129.99
YAE XF-117CN	300 Hz CW filter; FT-100D	99.99
YAE YF-116A	6 KHz AM filter; FT-920	129.99
YAE YF-116C	500 Hz CW filter; FT-920	129.99
YAE YSK-100	Separation kit for FT-100D	89.99
YAE YSK-8100	Rem separation kit; FT-8100R	74.99

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ARB704 AMP BUFFER	39.99m
AOR	
AR3000A DLX RCVR	629.99m
AR8600 BASE RCVR	629.99c
SDU5500 SPECTRUM DISP	799.99c
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SX100 SWR METER/ HF-6M	99.99v
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MS8 SPEAKER	39.99m
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R8B RCVR	999.99v
HEIL	
HCLIC MIC/ICOM	184.99f
ICOM	
AD56 BATT ADAPT	9.99c
AT150 AUTO ANT TUNER	299.99mf
IC728 HF XCVR	489.99c
IC728 HF XCVR/FL100	499.99m
IC735 HF XCVR	499.99m
IC735 XCVR/NO DOOR	479.99c
IC745 HF XCVR/CM FILTER	439.99f
IC746PRO HF/6/2 XCVR	1,299.99m
IC756 HF/6M XCVR	999.99mc
IC756 XCVR/SCRATCHED	949.99f
IC756PRO HF/6M XCVR	1,399.99mf
IC756PROII HF/6M XCVR	1,879.99mf
IC775DSP HF DSP XCVR	2,199.99c
IC775DSP/FL102/FL222	2,249.99c
MB85 MOUNT	17.99m
PS125 POWER SUPPLY	199.99mcv
PS85 POWER SUPPLY	149.99m
R7000 25-2000MHZ RCVR	899.99mc
R7000 RCVR/AC DC CORDS	899.99c
R7000 RCVR/MB430	919.99c
R8500 RCVR	1,149.99m
KENWOOD	
AT50 AUTO TUNER	259.99m
MB100 MOBILE MOUNT	19.99c
PS33 POWER SUPPLY	119.99c
PS40 20A SWITCHING PS	124.99m
PS430 POWER SUPPLY	149.99m
PS52 POWER SUPPLY	189.99m
PS53 POWER SUPPLY	179.99c
R6500 SWL RCVR	469.99c
SP940 SPEAKER/ROUGH	49.99m
SP950 SPEAKER	119.99m
THD7A(G) 2M/440 HT/TNC	289.99m
TM461A 35W 440MHZ FM	299.99f

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ADI	
AR147+ 2M XCVR	134.99c
AT401HP UHF HT	143.99c
AES	
SPN SURGE PROTECTOR/N	35.99v
AIM	
38384 4A POWER SUPPLY	35.99c
ALINCO	
DJCS5 HT/NO ANTENNA TIP	124.99m
DJX2T RCVR	179.99m
DJ496T 440 HT	134.99m
DR620T 2M/440 FM XCVR	304.99v
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EBP35N BATT	69.99c
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DELTA4 4 POS ANTENNA SW	71.99f
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HP300T HIGH PASS FILTER	8.99v
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107PC2 CODE SOFTWARE	12.99mf
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PNP7D KNWD CABLE	14.39c
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AR8200B RCVR	429.99c
AR8200MKIIB RCVR	499.99f
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242 OPERATING MANUAL CD	34.99v
ASTRON	
RS12A POWER SUPPLY	71.99c
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RS7A 7 AMP POWER SUPPLY	53.99v
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SS25M 20A SW PS/METERS	116.99v
VS20ML POWER SUPPLY	125.99c
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YA1 LOW PASS FILTER	77.99c
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780103 ERRECTING PRISM	44.99m
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CPK1 COUNTERPOISE	116.99c
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31142 NEXSTAR114GT TEL	399.99m
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SDI50 TELE INTERCONNECT	399.99f
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9515A ROTOR/KNOB CRACK	99.99m
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82007 ELEMENT	79.99m
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HH75ST CB HT	49.99m
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CK5N "N" MOUNT	39.99m
CP5M MOUNT/COAX; UHF	59.99m
GR5M TKN LIP W/COAX	60.99m
HP32 2M/440 ANT	80.99v
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CS800 MANUAL	7.99v
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A743 40/10 KIT	159.99m
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X740 40M KIT/X7	287.99v
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G71504 2M ANTENNA	179.99m
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MX270 ANT/MAG MT	55.99m
SCB-S SUPER CB ANT	24.99m
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HAMIV ROTOR	479.99m
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ICOM	
AD51 CHARGE ADAPTER	9.99mv
AD56 CHARGE ADAPTER	12.99v
AH4 80-6M ANT TUNER	234.99c
BC119(11) DESK CHARGER	62.99c
BC119 (31) DESK CHGR	89.99c
BC119N11 DESK CHGR	79.99v
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BP157 BATTERY	59.99c
BP173 BATTERY	89.99mf
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BP211 BATTERY	79.99mf
BP21N BATTERY	82.99c
CP12L CIG ADAPTER	29.99mf
CP13 CIG ADAPTER	34.99mf
CP17L CIG ADAPTER	19.99mf
CP18A CIG DC CBL	27.99c
CR282 STABILITY XTAL	107.99v
CSWH4A FSWIRE/CABLE	44.99mf
CSWR10 SOFTWARE	40.99c
FL103 WIDE SSB FLTR	99.99c
HM46 SPEAKER MIC	40.99c
HM54 HD SPKR MIC	75.99c
HM77A HAND MIC	109.99v
HM92A HAND MIC	89.99mf
HM98 HAND MIC	49.99v
HS10SA HEADSET	59.99mf
HS85 HEADSET	79.99mf
ICF21GM GMR/FRS HT	134.99f
ICF22A HT/SPK-MIC/CP12	199.99v
ICF22A 2M HT	149.99mf
ICF90A 6M/2M/440 FM HT	224.99v
ICV8000 2M 75W XCVR	171.99c
IC208H 2M/70CM XCVR	269.99mf
IC2720H 2M/440 XCVR	329.99mf
IC746PRO HF XCVR	1,529.99cf
IC746PROI HF XCVR	2,159.99f
LCF21L CASE	34.99v
LC128 CASE	34.99cv
LC137 CASE	34.99cv
LC148 CASE	22.99c
MB62 BRACKET	23.99mf
MB85 MOUNT	19.99mf
OPC598 CABLE/AT180	65.99v
PSR5 POWER SUPPLY	239.99mf
RSR75 SOFTWARE/R75	69.99mf
RSR8500 R8500 SOFTWARE	69.99mf
R10(05) RCVR	269.99mf
R3(26) RCVR	314.99c
R5(06) RCVR	179.99mf
R75 0.3-60 MHZ SW RCVR	474.99mf
R8500(02) RCVR	1,349.99f
SP7 SMALL EXTERNAL SPKR	85.99v
INTERNATIONAL ANTENNA	
160M HALF-SLOPER	124.99mf
KANTRONICS	
KAM98 TNC	359.99v
KENWOOD	
EMC3 LAPEL MIC/EARPHONE	24.99mf
KSC3 VOX/BOOM MIC	53.99c
KMC8 CHARGER (220V)	19.99f
MC520M MIC	71.99mf
MC580M MIC	71.99v
PB33 BATTERY	80.99v
PG3E CIG CORD	8.99mf
PS53 HEAVY DUTY PS	224.99v
RC2000 REMOTE FACE	314.99v
SC51 SOFT CASE/THF6A	14.99v
SP23 SPEAKER	79.99v
TH22ATH HT/NO BOX/MAN	169.99mf
TH22ATH 2M HT	179.99c
TMG707A 2M/440 XCVR	239.99mf
TMV7A XCVR/SMALL CHIP	330.99v
TMV7A 2M/440 XCVR	341.99mf
TS50S HF XCVR	602.99c
TS570D(G) HF XCVR	863.99cf
TS570S(G) XCVR/NO MIC	949.99mf
UBC4 DESK CHGR/UPB1	9.99v

KURANISHI	
BR210 ANALYZER	384.99mf
LACROSSE	
WS7038UF WIRELESS RAIN	53.99v
WS8015U THERMOMETER	139.99mf
LARSEN	
KG144UDPL 2M GLASS MT	69.99c
NMO150TLM 2M ANT/TRNK	49.99v
NMO440C UHF ANT	24.99mf
POK ROOF MT/UHF-F	27.99v
LDG	
AT100PRO AUTO TUNER	179.99mf
RT REMOTE HEAD/SCRATCH	35.99f
RT11 160-6M AUTO TUNER	179.99c
Z11 TUNER/MINOR DET	113.99v
LIGHTWAVE	
LWHT HEADBAND LIGHT	35.99v
LW3000 FLASHLIGHT	44.99v
MAHA	
MHC204F CHARGER	19.99mf
MHC888 CHARGER	53.99v
MHSC803 ADAPTER/MHC888	6.99mf
MAXON	
FRS114 FRS HT	44.99c
GMR521X GMR/FRS HT	89.99c
MX49FX 49 MHZ XCV	19.99mf
MX49SX 49MHZ XCV	24.99mf
MFJ	
118 24/12 CLOCK	22.99cv
1040B RCVR PRESELECTOR	89.99v
1118 POWER STRIP	64.99mf
1214PC INTERFACE; IBM	124.99mf
1224 INTERFACE	89.99mf
1272B TNC/MIC INTERFACE	32.99c
1272M TNC/MIC SWITCH	24.99f
1272MYH TNC/MIC SW	35.99v
1272MZ TNC/MIC SWITCH	19.99f
1278B INTERFACE	251.99f
1278B/DSP INTERFACE	323.99f
1279M SNOCDR INTERACE	115.99v
128 CLOCK	49.99mf
1289M 3-1/2 IBM	53.99cv
1786 LOOP ANTENNA	314.99mf
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4114 POWERPACK	59.99mf
4245MV POWER SUPPLY	171.99mf
44 SCOPE TUNE	13.99c
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452 CW KYBRD UNIT	119.99mf
462B MULTI-RCVR	149.99mf
490 PADDLE/KEYER	169.99v
492 MEMORY KEYS	79.99v
498X KEYS	134.99mf
5022X HT TO PK232 CABLE	12.99mf
5063 TNC CABLE ICO	17.99c
5084 TNC/ICO 8P	13.99mf
5086 TNC-KEN/ALI 8-PIN CBL	12.99v
5086YH KAM HF KEN 8P	12.99v
5383Y YAE INTERFACE CBL	35.99v
5397MY YAE MOD CABLE	13.99mf
5397Y YAE 8-PIN CABLE	14.99c
64113 CHARGER	44.99mf
641K CHARGER	44.99cv
704 LOW PASS FILTER	44.99mf
802X FIELD STR MTR	53.99c
8100W SHORTWAVE RCVR	79.99mf
817 144/440 SWR/WATTM	80.99f
864 HF/6/2/70 SWR METER	76.99v
870 1.6-60 GRANDMASTER	112.99v
924 440MHZ ANT TUNER	62.99v
941E 300W ANT TUNER	93.99v
948 300W TUNER	107.99v

956 PRESELECTOR	44.99mf
989C DLX 1.2KW TUNER	287.99mf
994 TANT UNER	299.99mf
MBE	
HF51 SPEAKER	7.99mf
MIDLAND	
WR300 WX RADIO	44.99v
75510 FRS RADIO	29.99c
MIRAGE	
A1015G 6M 10/150W AMP	314.99f
BD25 AMPLIFIER	144.99mf
B215G 150W 2M	239.99mf
B2516G AMP	239.99mf
B310G 2M AMP/PREAMP	159.99cf
B510G HT/100W 2M AMP	188.99mf
C211G 220 AMP/PRE	299.99v
D15N AMP/430	149.99mf
KP1/220 PREAMP	89.99mf
KP1/440 PREAMP	116.99v
KP2/440 PREAMP	161.99c
RC1 REMOTE CONTROLLER	39.99mf
M2	
2MS440XP DUAL BAND YAGI	179.99c
NIGHT OWL	
NOC3 NIGHT VISION	139.99f
OREGON SCIENTIFIC	
RM116E CLOCK	26.99mf
WMR112A WX STATION	179.99v
WR196T WX RADIO	62.99v
PALOMAR	
SMARTBRIDGE SOFTWARE	4.99v
POLYPHASE	
ISSONXC2 125-1000 N F	55.99v
POUCH	
P5 POUCH	13.50v
RAMSEY	
QR4P 40M CW TX KIT	32.99v
RANGER	
RCI2950DX 10M XCVR	199.99mf
RCA	
T25 DISTRIBUTION AMP/TV	17.99mf
SANGEAN	
ATS818CS SW RCVR	169.99f
ATS909 SWL RCVR	224.99v
SGC	
0401 SG2000 HF XCVR	1,079.99fv
0401 SG2000/NO MIC/MAN1	1,049.99mf
0501 SG2020 HF XCVR	539.99cf
5296 SG500 AMP	1,124.99v
5417 SG-231 SMARTUNER	476.99v
7007 POWER CLEAR DSP	249.99mf
7014 ADSP2 DSP SPEAKER	116.99v
SHAKESPEARE	
495 MARINE ANT MOUNT	15.99v
SMILEY	
270A 2M/440 TELES ANT	17.99v
5/8SLD2 2M DUCK	15.99v
SONY	
AN102 ANTENNA	69.99mf
ICFSW07 SWL RCVR	359.99mf
ICFSW30 SWL RCVR	69.99c
ICFSW40 SWL RCVR	109.99mf
ICFSW7600GR SWL RCVR	143.99v
TERK	
TV50 TERK AMP TV ANT	71.99v
TIMEWAVE	
WEFAX256 PROG	116.99v
UNIDEN	
BC17 SCANNER	149.99c
BC147XLT SCANNER	80.99c
BC244CLT SCANNER	89.99c
BC245XLT SCANNER	169.99c
BC250D SCNR	287.99c
BC350C SCANNER	89.99mf

PC68TLW MOBILE CB	71.99v
PC78ELITE CB XCVR	99.99mf
SC150B SCANNER	143.99c
SC200 SCANNER	179.99f
VALOR	
PHF6 6M ANT	19.99mf
VANCO	
370052 DIG MULTIMETER	17.99c
VECTRONICS	
CK200 DELUXE KEYS	69.99mf
HPF1 HI-PASS FILTER	19.99mf
LP30 LOW PASS FILTER	62.99v
VC300DLP TUNER	134.99mf
VIBROPLEX	
123 PADDLE/GOLE	249.99mf
WILSON	
FGT3/BLK 3' CB WHIP	23.99c
TRUCKER 2000	49.99mf
W1000 CB MAG MT ANTENNA	69.99mf
WART	
ANTBOSSIII INTRFACE; IC706	134.99v
OT8787 TUNE CONTROL	58.99v
W5YI	
GIWT03 TECH THEORY TAPES	29.99mf
GW05 CODE TAPES	26.99mf
X-10	
SP554A WIRELESS MOT DET	26.99v
YAESU	
ADMS1E PROG SOFTWARE	34.99v
ADMS2G PROG SOFTWARE	34.99cv
ADMS2J SOFTWARE	34.99mf
CD115 CHARGE STAND	19.99c
CD15A CHARGE STAND	26.99v
CMP460A SPKR/MIC/VX7R	49.99mf
CSCV10 CASE	24.99v
CSC69 FOR FNB40	13.99mf
CSC73 CASE FOR VX5R	17.99c
CSC88 CASE FOR VX7R	12.99mf
EDC12 CIG ADAPT	24.99mf
EDC58 DC ADAPTER/FILTER	23.99v
FBA15 BATTERY	14.99mf
FBA23 BAT CASE	26.99c

FC30 AUTOTUNER	179.99f
FNB41 BATTERY	52.99c
FNB78 BATTERY FT897	107.99f
FNB79 BATTERY; VR120D	7.99c
FNB83 BATTERY	44.99mf
FP1030A 25A PS W/MTRS	224.99mf
FRG100B RCVR	494.99fv
FT840 HF XCVR	522.99c
FT8900 CIRCUIT DIAGRAM	2.99v
FT8900R 4-BAND XCVR	379.99mf
G450A 10 SQ FT ROTOR	233.99v
G550 ELEVATION ROTOR	279.00c
HR100 WIRES UNIT	134.99mf
MD100A8X DESK MIC	126.99f
MD200A8X DLX DESK MIC	359.99f
MEK2 MIC EXND	19.99mf
MH30A2B SPKR/MIC	24.99mf
MH30C2B SPKR MIC	41.99c
MH32A2B SPK/MIC	22.99mf
MH37A4B SPKR/MIC	24.99mf
MH57A4B SPKR MIC	27.99c
NC55B CHARGER	11.99v
NC72B WALL CHGR	16.99c
SU1 ALT/BARO SEN	32.99c
VAC370B CHARGER	59.99mf
VR120 RCVR	152.99cf
VR120D COMM RCVR	170.99f
VR500 COMM RCVR	269.99v
VR500/FNB59/CGR/EDC5B	324.99c
VR5000 ALL MODE RCVR	539.99f
VX1R 2M/440 HT	116.99c
VX150 2M HT	107.99cv
VX2R 1.5W 2/440 HT	161.99c
VX5R 6/2/440 HT	197.99c
YAO07FG ANTENNA	134.99mf
YF12C CW FILTER	107.99v
YH1 HEADPHONES	34.99mf
YSK7100 SEPARATION KIT	62.99v
YS60 WATTMETER	116.99v



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&
Upgrade**

**We need your clean
SSB & FM Gear!**
Sorry, no Handhelds

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Please use these lists as a Guide

These Used and Demo Equipment lists are compiled from an actual inventory as of 3/5/2005. However, due to turnover from daily selling and trading, the actual items listed may or may not be available. All of our stores are linked on-line which allows real time access to our ever changing inventory. For your needs, you may call any of our locations to check for availability or to discuss an alternative with one of our salespersons. The Used and Demo Equipment Equipment lists are also available on our web site and are updated regularly.

www.aesham.com

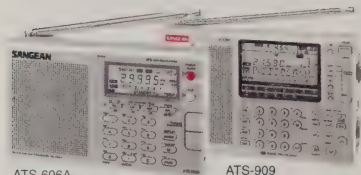
German designed and
radio engineered
by Sangean.



ATS-404 PLL Synthesized World Band Receiver
Coverage includes AM (520-1710 kHz), 14 SW bands, or continuous 2.3 to 26.1 MHz tuning. Tune via Up-Down buttons; Automatic scan tuning; Keypad entry or the 45 Memory presets. Backlit LCD shows frequency or 12/24 hour clock-time with alarm and snooze. Other: FM stereo with earphones, MW 9/10 kHz, low-battery indicator, lock; dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5" w x 4" h x 1.5" d; 10 oz. **\$79.99**



ATS-505 PLL Digital World Radio - Coverage: LW (153-27.9 kHz), AM (520-1710 kHz), SW (1711-29.999 kHz) & FM (87.5-108 MHz). Tune via Manual tuning knob; Up-Down buttons; Automatic scan tuning; Keypad entry or from the 45 memories. SSB reception with fine tuning. Other features: Stereo via earphones, Auto Preset System, MW 9k/10k switch, lock, tone control, Local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, the ANT-60 wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5" w x 5.3" h x 1.6" d; 24 oz. **\$129.99**



ATS-606A PLL World Band Receiver - Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD; 54 memories; Scanning; Fine tuning; Dual digital clock-timer-alarm; FM stereo with earphones. Uses (3) "AA" batteries. Includes ANT-60 wind-up antenna, AC adapter and earbuds. Dim: 5.75" w x 3.5" h x 1.25" d; 1 lb. **\$139.99**

ATS-909 PLL World Band Receiver - Coverage: LW (153-519 kHz), MW (520-1710 kHz), SW (1711-29.999 kHz) & FM (87.5-108 MHz). Tune via: Manual knob; Direct keypad entry; Auto scan. Manual up-down tuning or Memory recall. Wide/Narrow bandwidth switch and SSB/CW reception with fine tuning. Store 307 presets in Alphanumeric memories; RDS display of Station Name & Time. Other: MW 9k/10k switch; 12/24 hour time, (3) timers and sleep timer; Displays 42 city times; Recorder output. Uses (4) "AA" batteries. Includes AC adapter, ANT-60 wind-up antenna, stereo earbuds and carrying case. Dim: 8.5" w x 5.375" h x 1.375" d; 1.9 lbs. **\$249.99**

PT-50 ProTravel World Receiver - This handsome ultra compact radio is for the globetrotting traveler. It features AM, FM, plus continuous shortwave coverage 1.7-29.999 kHz and FM Stereo reception with earphones. Two LCD window displays with built-in clock that will wake you to radio or buzzer. Handy selector disc provides time in 24 world cities and your hometown local time. Soft-leather protective case is included. Dim: 5" w x 3.4" h x 1.29" d; 9.5 oz.; Uses (2) "AA" batteries. **\$75.99**

PT-80 ProTravel - This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1.711 to 29.999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Dim: 7" w x 4" h x 1.0" d; 1 lb. 2 oz.; Uses (4) "AA" batteries. **\$159.99**



RCR-2 Digital Atomic Clock Radio - A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Boulder, Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5" w x 3" h x 5.25" d; 2 lbs **\$69.99**



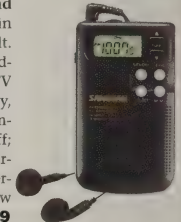
WR-1 High Fidelity Radio - This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed hi-fi circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality, at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out and 12V DC input jacks. Dim: 9.4" w x 4.4" h x 6.6" d; 5.18 lb. **\$119.99**

PRD-2
FM-Stereo/AM/TV
Digital tuning Portable
Receiver



A retro-1960's classic design with modern technology that come together in this stylish decorative portable/table-top radio. Attractive gold faceplate with simulated walnut exterior. Four tuning methods: Scan tuning, Rotary tuning, Manual tuning and 10 Memory preset tuning - also tunes TV channel audio. Clock feature with alarm. Rotary tuning knob, direct access buttons, and tone control. Full range 5 in. speaker, 1.5 in. tweeter and earphone jack. Beautifully crafted case with lighted display, illuminated presets, AC/DC, operates on 110VAC or (4) "D" batteries. Dim: 7.2" w x 5.1" h x 7.5" d; 4 lbs. **\$99.99**

DT-200V Broadcast and TV Band Receiver - Fits in shirt pocket or clips to belt. Covers AM and FM broadcast, plus audio from TV channels 2-13. LCD display, Up/Down tuning; 19 memories, Automatic shut-off; Built-in speaker; Stereo earphones. Uses (2) AA batteries. Dim: 4.375" h x 2.625" w x .75" d; 5 oz. **\$69.99**



ANT-60 - Portable, wind-up, shortwave antenna for use with most shortwave radios. **\$13.99**



R-8B Communications Receiver

Microprocessor controlled, PLL synthesized. Coverage: 10 kHz to 30 MHz plus 35-55 MHz & 108-174 MHz with the optional 1590 VHF converter. All modes: AM (synchronous detector), FM, SSB, RTTY & CW. Frequency entry via dual VFOs, keypad or 1000 non-volatile alphanumeric memories. Three scan methods and three scan modes. Five bandwidth filters; Wide/narrow noise blanker; S-meter; IF-shift; Selectable AGC; Multiple antenna inputs; 3 selectable tuning steps; Keypad entry of Mode and Bandwidth; Port for RS-232 computer control; RF gain; RF preamplifier; RF attenuator; Built-in speaker; Multi-voltage power supply. Dim: 13.5" w x 5.25" h x 13" d; 13 lbs. **\$1499.99**

1590 VHF Converter - Adds 35-55 MHz and 108-174 MHz coverage to R-8B. **\$269.99**

MS-8 External Speaker for R-8B. **\$59.99**



ICF-SW07 Portable Shortwave – Coverage: FM (76-108 MHz), SW (1621 kHz to 29.999 MHz), MW (530-1620 kHz), LW (150-529 kHz). Synchronous AM detection, SSB single sideband/CW reception and FM stereo at earphones. One-push access to 8 major stations (BBC/VOA/DW, etc.). "MY" memory key allows presetting of up to 100 frequencies with station name. Four other tuning methods: Direct, Manual, Scan or from 3000 preset memories. Editable station labels; 24-city Name/Time display; Tone switch; Lock, 24 hour clock/timer; Sleep timer; Variable attenuator; external antenna jack; Backlit display. Includes: leather carrying case, AN-LP2 active loop antenna, Sony Short Wave Guide, AC adapter and stereo earphones. Uses two "AA" batteries or 3 VDC from 120VAC adapter. Dim: 5.3" w x 1.2" d x 3.6" d; 9.1 oz..... **\$399.99**



ICF-SW11 Compact Analog Portable – Coverage: LW (141-290 kHz), MW (525-1620 kHz), FM (88-108 MHz) and nine Shortwave Bands: 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45 to 21.75 MHz. Easy analog tuning with LED tuning indicator; FM stereo available at headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC. Dim: 6.5" w x 3.75" h x 1.3" d; 12 oz..... **\$49.99**



ICF-SW12 Shortwave Analog Clock Radio – For the traveller; compact size and protective lid. Coverage: FM, AM and SW bands (1-9) 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45-21.75 MHz. LED Tuning Indicator for precise center-frequency indication and accurate tuning; Bandsread; Sophisticated backlit LCD World Clock display; Built-in alarm with snooze function; Summer time adjustment; Built-in AM ferrite bar and telescopic FM/SW antenna; 1.8 inch speaker; Earphone jack; Shortwave Guide. Uses two "AA" batteries. Dim: 4.3" w x 3.1" h x 1.2" d; 8.2 oz..... **\$89.99**



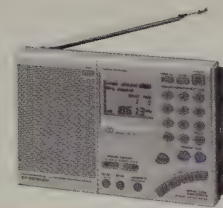
ICF-SW35 Digital Portable – PLL synthesized, dual conversion superheterodyne (except FM band). Coverage: LW (150-285 kHz), AM (530-1710 kHz), FM (76-108 MHz) and SW (2250 kHz to 26.1 MHz). FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or automatic memory scan. Memories are in 5 banks of 10 presets each, are non-volatile and retained when changing batteries. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2.125" speaker; RF attenuator; Tone switch; Stereo earphone jack; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap and Shortwave Guide. Dim: 6.7" w x 4.5" h x 1.4" d; 16 oz..... **\$89.99**



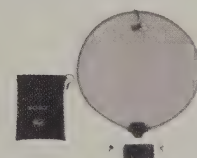
ICF-SW40 Digital/Analog Portable – The accuracy of Digital readout with the intuitive operation of Analog and PLL synthesized. Coverage: LW, MW (AM), FM bands and SW from 3850 kHz to 26.1 MHz. Normal/Fine tuning (10 kHz/9 kHz) step for AM, 5 kHz step for shortwave and 0.1 MHz for FM. Fine mode tuning steps: 1 kHz (AM/SW) and 0.05 MHz (FM). Backlit LCD display; LED tune indicator; 20 station memory presets; Two position tone control; DX/Local switch; Built-in clock with sleep function and dual standby; Dial lock. Includes cloth case. Requires three "AA" cells or 4.5 VDC. Dim: 6.75" w x 4.25" h x 1.6" d; 15 oz..... **\$119.99**



ICF-SW100S Pocket-Sized Portable – Ideal for Travel; only 4.3" w x 0.9" h x 2.8" d and just 8 oz. A PLL synthesized, dual conversion superheterodyne. Coverage: FM (76-108 MHz) and complete LW, MW and SW coverage (150 kHz to 29.999 MHz). SSB/CW reception and synchronous AM detection. Tuning via: Auto scan of available stations, presets, manual and 10-key direct access. LED tuning indicator; DX/Local switch; 1 kHz step tuning; 24-city name and time display; 50 station memory presets; Station labels; FM stereo via headphone jack; Clock with sleep timer and dual standby; Line plus slide switch for FM Mono/Stereo or Tone; Tape recording output jack; International time chart. Includes active antenna, stereo earbuds, AC adapter, and carry case. Uses two "AA"s or 3 VDC..... **\$349.99**



ICF-SW7600GR General Coverage Portable Dual conversion superheterodyne, microprocessor-controlled and PLL synthesized. Coverage: LW, MW & SW (150 kHz to 29.999 MHz) and FM (76-108 MHz). Tuning via: 10-key direct access keypad, manual tuning, automatic scan and scanning of 100 non-volatile memories. Smooth SSB/CW reception with fine tuning thumb-wheel and AM synchronous detection. FM stereo is provided to the headphone jack. Multi-function LCD digital read-out; 1/5 kHz step tuning; 9/10 kHz MW step; Dial light and LED "tune" indicator; 24-hour digital quartz clock with dual time, sleep timer and standby functions; Record output jack; Tone switch; 3 in. speaker; Keypad lock; External antenna jack; Uses four "AA" cells or 6 VDC. Includes: wind-up antenna, wrist strap, carry case and SW Guide. Dim: 7.6" w x 4.75" h x 1.3" d; 22 oz..... **\$159.99**



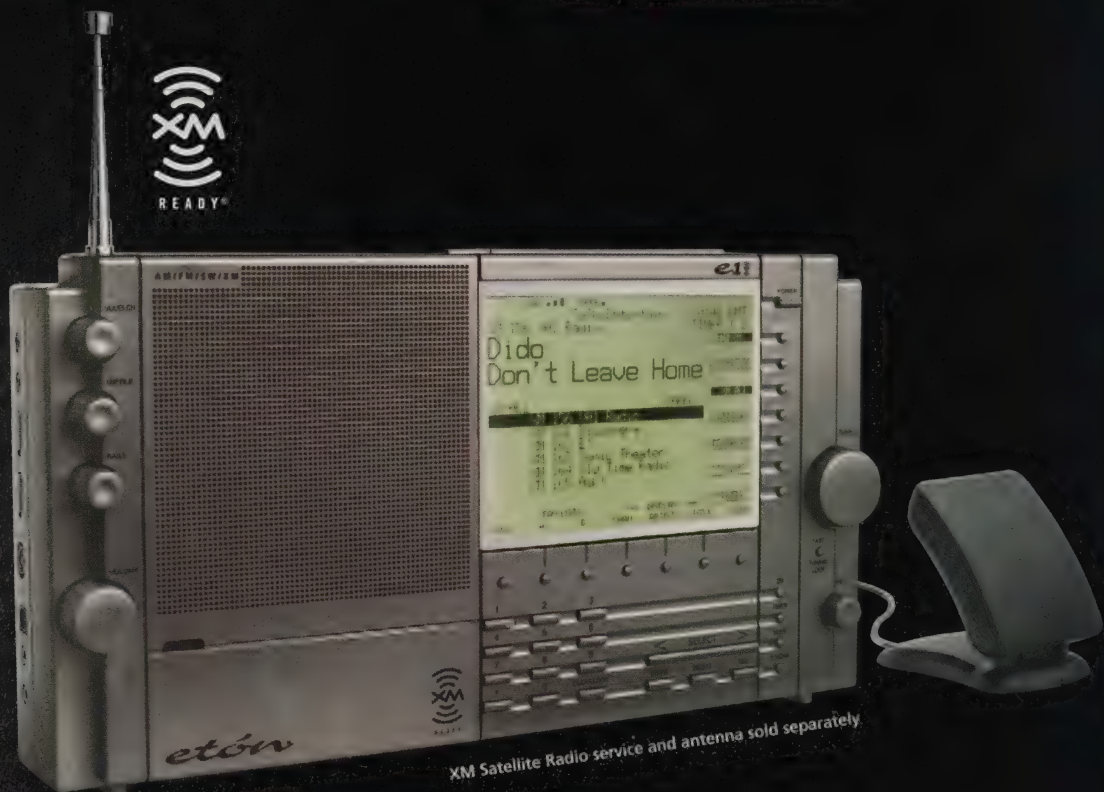
AN-LP1 Active Antenna – A flexible folding loop antenna that combines with a tunable active controller to enhance sensitivity for clearer reception of weak signals. Great for travel; the loop is 19 in. diameter, and folds down to 7 in. to fit in the soft carrying case. A clip and suction cup at the end of the loop allows for convenient placement on windows, etc. Uses two "AA" batteries for about 40 hours of operation..... **\$89.99**



E-1 AM/FM/SW and XM Satellite Radio The world's first radio with such wide frequency range. Coverage: 100 kHz-30 MHz LW, MW, SW & FM (88-108 MHz) plus XM Satellite Radio*. Dual conversion superhet with digitally synthesized PLL tuner with synchronous detector. Modes: AM, FM, SSB/CW. Tunes via: variable rate tuning knob, direct keypad entry, up/down buttons or auto-tuning. 500 user programmable with alpha labeling plus 1200 user definable country, 1700 total; Memory Scan function; illuminated, 5.5 inch dot-matrix LCD; I.F. passband tuning; Dual programmable clock with WWV auto-setting; Dual event programmable On/Off timers; Calibrated LCD S-meter; Stereo at headphone jack. Uses four "D" batteries or included AC adapter. Dim: 13.1" w x 7" h x 2.5" d; 4.2 lbs..... **\$499.99**
* XM Radio requires subscription, not included

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XM Satellite Radio service and antenna sold separately

E1

AM/FM/Shortwave/XM Ready Radio

XM Satellite Radio offers over a hundred channels of music, news, talk, and sports programming.

- High-Performance receiver for international and local radio listening
- 1700 user-defined station memory presets with customizable organization by country
- Graphical LCD screen displays frequency, song information (when available), battery/signal strength and clock/alarm functions
- Direct frequency entry for all bands
- Shortwave, AM and LW range of 100-29999 KHz
- SSB, Synchronous Detector and Passband Tuning

Dimensions: 13.1"L x 7.1"H x 2.3"W Weight: 4lbs. 3oz.

Power Source: 4 D batteries (not included) or AC adaptor (included)



E100

AM/FM/Shortwave

Full-size features in your palm or pocket.

- Shortwave range of 1711 – 29,999 KHz
- 200 programmable memories
- Memory page customization
- Manual & auto scan
- Direct keypad frequency entry
- Sleep, timer, snooze, and functions

Dimensions: 4.9"L x 3"H x 1.2"W • Weight: 7oz.
Power Source: 2 AA batteries (included) or AC adaptor (not included)



E10

AM/FM/Shortwave

Intelligent features. Strong performance.

- Shortwave range of 1711 – 29,999 KHz
- 550 programmable memories
- Memory page customization
- Manual & auto scan
- Direct keypad frequency entry, ATS
- Internally recharges included Ni-MH batteries
- Sleep, timer, snooze, and functions

Dimensions: 7.8"L x 4.6"H x 1.4"W • Weight: 11lbs. 8oz.
Power Source: 4 AA batteries or included AC adaptor/charger, which internally charges 4 AA batteries (included)

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Palo Alto, California



G-2000A Porsche Design Shortwave Radio
Designed for Grundig by F.A. Porsche. This radio has a titanium finish look with a genuine leather case that closes around the radio like a book and serves as a stand. Coverage: AM (530-1710 kHz), FM (87.5-108 MHz), SW (2.3-7.4 and 9.4-26.1 MHz). FM-stereo to the earphone jack. Tunes via up/down buttons, autosearch, direct keypad entry or 20 memory presets. Illuminated multifunction LCD display; 12/24 hour clock with alarm (radio or buzzer) and sleep timer; MW 9/10 kHz; Lock button; Stereo/Mono switch; Earphone output and 4.5 VDC input jacks. Includes real leather case, stereo earbuds and shortwave guide. Uses three "AA" batteries. Dim: 5.5" x 3.5" x 1.25"; 11.5 oz. **\$79.99**

G-4000A AM/FM Shortwave Radio - Sleek titanium colored, packed with features. Coverage: LW (144-353 kHz), AM 530-1710 kHz, Shortwave (1711-30 MHz). FM stereo to the earphone jack. Tuning via: direct keypad, up/down buttons, frequency search or store up to 40 of your favorite stations in 40 presets, which may be accessed directly or you can scan through them by using the radio's second set of up/down buttons. The illuminated LCD shows tuning resolution at 1 or 5 kHz on shortwave. Two bandwidths: Narrow position for maximum selectivity, or Wide position for best audio fidelity. Dual digital clock with snooze and sleep buttons. Lock; Hi/Low tone switch; Local/DX switch; 9/10 kHz MW step selection; External jacks (3.5mm) for earphone, antenna and 9 VDC input; flip-out tilt stand. Includes AC adapter, stereo earbuds, wind-up antenna, vinyl carry case. Uses six "AA" batteries. Dim: 8" w x 5" h x 1.5" d; 21 oz. **CLOSEOUT \$149.99**



MINI-WORLD 100 Pocket Portable - Coverage: AM (530-1710kHz), FM stereo (at earphone jack) and six shortwave bands: 5.8-6.4, 6.9-7.5, 9.4-10, 11.65-12.15, 15-15.65 and 17.5-18.4 MHz. Analog tuning dial & LED tuning indicator. Includes a vinyl case, belt clip and stereo earbuds. Uses two "AA" batteries. Dim: 2.75" w x 4" h x 0.75" d; 6 oz. **\$29.99**

YACHTBOY 550 High Performance Receiver
Coverage: AM (530-1710 kHz), FM (88-108 MHz) and SW (1.711-29.999 MHz). FM-stereo at earphone jack. Tuning via direct keypad entry, up-down buttons, scroll wheel, autoscanner or 200 memory presets. Illuminated multi-function LCD; Digital clock with alarm and snooze; Signal strength and battery indicators; Telescopic and internal bar antennas and ext. antenna jack. Includes earbuds, stand, carrying case, three "AA" batteries and SW guide. Dim: 4.5" w x 6.5" h x 1.5" d; 10 oz. **\$79.99**



YACHT-BOY 550

GRUNDIG



E-10 Portable Digital Radio - Coverage: AM/FM Broadcast Bands and Shortwave (1711 kHz to 29.999 MHz). FM-stereo at earphone jack. Tuning via: manual tuning; direct keypad entry, scanning or direct frequency entry. Store up to 550 stations or use the ATS (Auto tuning system) for automatic memory storage of AM/FM stations. New "IF Set" feature shifts the radio's intermediate frequency to minimize interference during shortwave reception. Built-in 24-hour digital clock with two turn-on timers and sleep function. Operation may be programmed to personal preferences and geographic location. Backlit LCD; AM 9/10 kHz and SW 1/5 kHz steps; Wide/narrow bandwidth; Fast/slow manual tuning; Stereo/Mono switch; Hi/low tone control; External antenna jack; Flip stand; Antenna Trimmer control optimizes antenna match. Uses four supplied rechargeable Ni-MH "AA" batteries which can be charged inside the radio. Includes, wrist strap, protective case, wind-up antenna, AC adapter and stereo ear buds. Dim: 7.5" w x 4.5" h x 1.25" d; 1.3 Lbs. **\$129.99**

E-100 Compact Portable Digital Radio
Coverage: AM (530 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.7 to 30 MHz). FM-stereo at earphone jack. Tunes via keypad entry. Store up to 200 of your favorite stations. Operation may be programmed to personal preferences and geographic location. Built-in digital clock with two turn-on timers and sleep function. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, two "AA" batteries and stereo earbuds. Dim: 4.75" w x 3" h x 1.1" d. **\$99.99**



S-350 Field Radio - Coverage: AM and FM broadcast bands plus continuous shortwave from 2.3 - 27.4 MHz, covering all 13 international shortwave broadcast bands: 11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75, 90 and 120 meters. Features sensitive analog tuner with digital frequency readout and lowpass filter. Fine tuning & RF gain controls; Separate bass & treble controls; Digital clock with alarm & sleep timer; Built-in antenna; Earphone & external antenna jacks; Left/right line level outputs; Comfortable carry handle. Uses 4 D-cell batteries or included AC adapter. Dim: 10.5" w x 6.5" h x 3.5" d. **\$99.99**

FR-200 Emergency Radio - Operates from the built-in wind-up generator and rechargeable NiMH battery, external 4.5 VDC or three "AA" batteries. In the most desperate situation, 90 turns of the generator crank will give an hour of play. Coverage: AM (530-1710 kHz), FM (88-108 MHz) and Shortwave (3.2-7.6 and 9.2-22 MHz). Built-in emergency light; Splash-proof ABS cabinet for indoor or outdoor use; Canvas carry case with shoulder strap. Dim: 6.75" w x 5.75" h x 2.125" d; 10 oz. **\$39.99**

YAESU



FRG-100B High Performance Communications Receiver - Covers 50 kHz to 30 MHz in CW, SSB, AM modes (FM optional). 50 tunable memory channels and two band edge memories; Multi-function scanning; Adjustable SSB carrier offset; Selectable AGC ratio; Noise blanker; All mode squelch; RF attenuator; Twin 12/24 hour programmable clocks with on/off timer and sleep-timer; CAT system for PC control; Bright backlit LCD readout with adjustable contrast; 120/240 VAC or 12-14VDC. Dim: 9.375" w x 3.5" h x 9.5" d; 6.6 lbs. **\$599.99**

See Price Guide for optional filters and high-stability oscillator.



VR-5000 Multi-mode Scanning Receiver
Continuous frequency coverage from 100 kHz to 2.6 GHz (cellular blocked). 2000 memory channels in 100 memory banks with alphanumeric labels. A wide variety of scanning capabilities with "Smart Search" automatic memory loading feature. Direct keypad frequency entry; Dual receive; Bandscope graphical activity monitor; World clock with time zone map. Requires 13.5VDT @ 0.7A. Dim: 7.1" w x 2.75" h x 8.0" d; 4.2 lbs. **\$599.99**



VR-120D Mini Communications Receiver - General coverage receive from 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes; includes AM and FM broadcast, HF shortwave, VHF/UHF TV, VHF AM aircraft band, and a wide range of commercial and public safety frequencies. Versatile 640 channel memory system; Rugged outdoor-ready case; Ultra-long battery life; BNC antenna connector; 4-button operation; Special "preset mode" aids in quick tuning; Super simple one-touch memories; Option for AC or DC power with optional adapter cable; Wide selection of scanning modes. Dim: 3.3" h x 2.3" w x 1" d; 6.9 oz. **\$199.99**

VR-500 High Performance Mini Receiver - General coverage 100 kHz to 1300 MHz (cell blocked) in CW, SSB, AM & FM wide/narrow modes. Includes AM/FM broadcast, HF shortwave up to 16 MHz, VHF/UHF TV bands, VHF AM aircraft band, and a wide range of commercial and public safety frequencies. Keypad entry; 1000 memory channels; 100 "skip" memories; 10 search memories; 100 dual watch memories; Priority. Uses 2 "AA" batteries. Dim: 2.2" w x 4.2" h x 1" d; 7 oz. **\$299.99**

RE-INVENTING RADIO

Through_Design



S350

AM/FM Shortwave radio

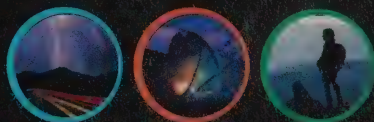
High-performance field radio

- Aeronautical design with rugged body
- Excellent AM, FM, & Shortwave reception
- Line-level output, separate bass, treble
- External antenna input
- Wide/narrow bandwidth filter controls
- Alarm and sleep timer functions

Dimensions: 10.8"L x 8"H x 3.5"W Weight: 3lbs. 2oz. Power Source: 4 D batteries (not included) or AC adaptor (included)

RE-INVENTING RADIO

Through_Necessity



FR300

AM/FM radio with NOAA, TV-VHF, flashlight, and cell phone charger

All-in-one self-powered weather alert radio

- "Weather Alert" plus all 7 NOAA weather channels • TV-VHF channels 2-13 • Hand-Crank Power Generator • Built-in Cell Phone Charger • Built-in flashlight and emergency siren • Inputs for AC adaptor and earphones • Dimensions: 6.7"L x 6.5"H x 2.5"W • Weight: 1lbs. 5oz. • Power Source: Hand-Crank Power Generator with rechargeable battery pack, 3 AA batteries (not included) or AC adaptor (not included)



cell phone charger



FR200

AM/FM Shortwave radio and flashlight

Emergency crank radio

- Hand-Crank Power Generator • Built-in flashlight • 11 International Shortwave bands • Perfect for camping, hiking, and everyday use

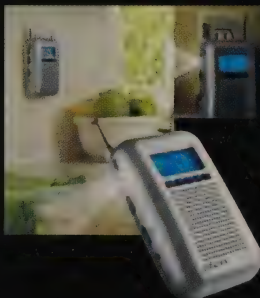


FR100

AM/FM radio and flashlight with blackout alert

Plug-in radio with blackout alert

- Just unplug it for bright light and an AM/FM radio • Plugs into the wall for continuous charging
- Illuminates automatically during a power failure • Rechargeable Ni-MH battery (included) lasts up to 16 hours for LED light or up to 8 hours of radio use



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PCR-1000-02 BON PC Communications Receiver for Computer – Connects externally and turns your computer into a triple conversion wide-band receiver. Listen to your favorite stations, including AM/FM broadcast & TV audio in the background while running other applications. Three interface screens: Communications, Component, or Receiver. Coverage: 0.5–1300 MHz (cellular blocked). Modes: SSB, CW, AM, FM & WFM. Unlimited memory channels grouped into banks of 50 channels each store stored on the computers HD or FD. The Direct Digital Synthesizer (DDS) provides 1 Hz tuning resolution, plus there's a wide variety of factory programmed and user programmable tuning steps. IF shift; Noise blanker; Voice scanning control (VSC); S-meter squelch; CTCSS decode; Six different scanning modes; RF attenuator; 9600 baud capability. Includes power supply, speaker, antenna and cable. Requires Microsoft® Windows® 3.1 to XP, 10 MB HD space, 16 MB RAM, Floppy drive, RS-232C serial interface, and VGA or SVGA display. Comes with **Bonito 4.2 Software Package** in addition to the Icom software. Dim: 5" w x 7.9" d x 1.2" h; 2 lbs **\$499.99**



R-75 HF + 50 MHz All Mode Communication Receiver – Coverage: 0.03 to 60 MHz, all modes; USB, LSB, CW, RTTY, AM, S-AM & FM with 101 memory channels. Conventional tuning plus direct input via numeric key pad. Alphanumeric readout with digital bar S-meter. DSP capability; High stability receiver circuit; Superior dynamic range; two-level preamp; Noise blanker; Synchronous AM detection; twin PBT capability; Front mounted speaker and filter options; Operates from 13.8V DC or supplied AC adapter. Dim 9.5" w x 3.75" h x 9"; 6.6 lbs **Call or Check our Website**



R-8500-02 Communications Receiver
Coverage: 0.1–2000 MHz (cellular blocked), all modes: AM, FM, WFM, SSB & CW. Tuning dial or direct keyboard entry with numerous tuning steps and 1000 tunable multi-function memories (20 banks of 40 channels). Versatile scanning (Memory, Priority, Program); Three antenna inputs; 500 Hz, 2.3, 6 & 15 kHz selectivity; Selectable AGC; TXCO; IF shift & APE; Noise blanker; Tone; S-meter squelch; Record output; RS-232C interface; Sleep timer; Operates from 110/220VAC. Dim: 11.9" w x 4.9" h x 10.9" d; 16.5 lbs **CLOSEOUT \$1579.99**



AR-8200 Mark III-B
Compact Wideband Receiver. Coverage: 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, Super Narrow FM, AM-W, AM-N, SSB & CW modes. 1000 Alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope with save trace facility; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: four NiMH 1500 mAh "AA" rechargeable cells, AC charger, belt-clip, auto cigarette lighter power cord, removable medium wave (AM) antenna and telescopic whip. Radio may also be operated from external 12 VDC. Dim: 2.4" w x 5.7" h x 1.0" d; 0.75 lbs **\$569.99**

AR-3000AB High Performance Monitor
Coverage: 100 kHz – 2036 MHz (cellular blocked) in FM-N, FM-W, SSB, CW & AM modes. Tuning knob or keypad entry. 400 multi-function memories (four banks of 100 channels). Scans and searches at 50 steps per second. The tuning rate can be as fine as 50 Hz for SSB/CW. Signal strength indicator; Clock/sleep timer; Record jack; Attenuator; RS-232 port for computer programming and control. Powers from 13.8 VDC or with supplied 110 VAC wall adapter. Dim 5.4" w x 3.1" h x 7.9" d; 2.6 lbs **\$1099.99**



TDF-370 Multi-Media Terminal with DSP – Listen to amazingly clear audio, transmit and receive PSK31 and RTTY, apply potent filtering and hear "weak ones" others may miss. Receive Digital modes without a PC! Uses powerful DSP noise reduction and filtering, including Fast Fourier Transform. Enhance audio reception of SSB and CW by monitor in "derived stereo". Decode and display PSK31 or RTTY, on the LCD Enhance transmitted audio with 8 channels of microphone equalization Auto-notch function; Digital voice recorder; Two selectable front panel inputs; Six outputs: phone, stereo headphones (included) internal or external speaker, microphone, PTT and COM. Uses 4 four "AA" NiCd or NiMH batteries or regulated external 9-15 VDC. Dim: 3.3" h x 4.3" w x 6.2" d; 12.3 oz **\$299.99**

8100W Regenerative Receiver – Listen to international shortwave broadcasts and hams on SSB/CW etc. Coverage: All or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15, 13 meters in five bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandwidth; Volume/RF gain controls; Aluminum cabinet. Uses 9-Volt battery. Requires earphones or plug-in speakers. Dim: 7" w x 2.5" h x 6" d; 1 lb **wired \$89.99**



AR-8200 Mark III-B

Compact Wideband Receiver. Coverage: 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, Super Narrow FM, AM-W, AM-N, SSB & CW modes. 1000 Alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope with save trace facility; Bar signal meter; CTCSS decode; 20



AR8600 Mark II-B – Extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Versatile band scope with save trace facility; Alpha-numeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and detailed manual. Dim: 5.9" w x 2.2" h x 6.9" d; 4.9 lbs **\$899.99**

SDU-5600

Spectrum Display Unit

Operates with the AR-3000AB, the AR-8600MKIIB and others with a 10.7 MHz I.F. Provides selection of center frequency, receive mode, etc. The high resolution, 5 in. color TFT display provides clear, crisp graphics. Built-in "water-fall" display function, FFT signal processing and analysis and DSP. Remote control via PC and more! Dim: 8.7" w x 4.7" h x 7.7" d; 5.1 lbs **\$1299.99**



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IC-R20

Dual watch & audio record!

150 kHz – 3.3 GHz* • AM, FM, WFM, USB, LSB, CW • 1250 Alphanumeric Memories • CTCSS/DTCSS Decode • Dual Watch • Audio Recorder • Weather Alert • Dynamic Memory Scan • Icom's Hot 100 Preprogrammed TV & Shortwave Channels • Lithium Ion Power



IC-R10

Advanced performance!

500 kHz – 1.3 GHz* • AM, FM, WFM, USB, LSB, CW • 1000 Alphanumeric Memories • Attenuator • Backlit Display & Key Pad • Voice Scan Control • 7 Different Scan Modes • Beginner Mode • Band Scope • AA Ni-Cds & Charger



IC-R3

See & hear all the action!

500 kHz – 2.45 GHz* • AM, FM, WFM, AM-TV, FM-TV • 450 Alphanumeric Memories • CTCSS with Tone Scan • 4 Level Attenuator • Antenna with BNC Connector • 2" Color TFT Display with Video and Audio Output Jacks • Lithium Ion Power



IC-R5

Compact performance!

150 kHz – 1.3 GHz* • AM, FM, WFM • 1250 Alphanumeric Memories • CTCSS/DTCSS Decode • Weather Alert • Dynamic Memory Scan • Icom's Hot 100 Preprogrammed TV & Shortwave Channels • Weather Resistant • AA Ni-Cds & Charger

Tune in the world with Icom!



IC-R75

Pull out the weak signals! **DSP included, US models only!**

30 kHz – 60.0 MHz* • AM, FM, S-AM, USB, LSB, CW, RTTY • 101 Alphanumeric Memory Channels • Twin Passband Tuning (PBT) • Synchronous AM Detection (S-AM) • Optional DSP with Noise Reduction Auto Notch Filter • Triple Conversion • Up to Two Optional Filters • Front Mounted Speaker • Large Display • Well Spaced Keys and Dials • PC Remote Control with Optional Icom RSR75 Software for Windows® • And Many Other Features



All Icom receivers are PC programmable. Visit your favorite AES location for details.

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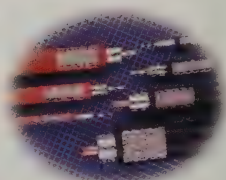
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Cobra CB Radios



19DX III Compact 40 channel Mobile CB Radio Combination S/Rf meter; 4W output; Instant channel 9; TX indicator; CB/PA switch; Mobile bracket. Dim: 4.5" w x 1.75" h x 7.25" d; 2.1 lbs **\$49.99**



20XTR Xtreme Street Communicator 40 Channel CB Radio - Neon blue front panel illumination and antenna that illuminates on transmit. LED display; 4W (AM) output; CB/PA switch; Front dynamic microphone jack. Includes mag-mount antenna and mobile mounting hardware. Dim: 6.25" w x 1.75" h x 6.5" d; 2 lbs **\$79.99**



25LTD AM Mobile CB Radio - 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6" d x 6.3" w x 2.2" h; 4 lbs **\$89.99**

29LTD AM Mobile CB Radio - Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/Rf/SWR meter. Dim: 8.6" d x 6.2" w x 2.2" h; 4 lbs **\$99.99**

RECOMMENDED CB ANTENNAS

COBRA
HGA-1000 Base loaded magnet mount mobile antenna with coax and connector..... **\$19.99**

HUSTLER
HQT A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil..... **\$27.99**

HQ-27M A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **\$36.99**

1C-100 44 in. base loaded magnet mount antenna (white) **\$19.99**

1C-11B 42 in. base loaded trunk mount antenna (black) **\$13.99**

LARSEN
NMO-27C Base loaded mobile, less mt ... **\$32.99**

NMO-TLP Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259 **\$29.99**

NMO-MM NMO-27C magnet mount. Comes with 12 ft. coax and PL-259 connector... **\$32.99**

SOLARCON
A-99 Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in. 3 dB gain **\$69.99**



29NW AM Mobile CB Radio - Same look and basic features as the 29LTD but: No Delta tune; Includes NightWatch™ fully illuminated display; Variable dimmer control; Tone control; Instant channel 9/19. Dim: 8.6" d x 6.3" w x 2.2" h; 4 lbs ... **\$119.99**

29WXNW ST AM Mobile CB Radio - Same look and basic features as the 29NW but has SoundTracker™ system; 7 NOAA weather channels with Weather Alert tone..... **\$129.99**



148GTL 40 channel AM/SSB CB Radio - Full featured, four full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/Rf/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3" h x 7.8" w x 9.2" d; 5 lbs **\$149.99**

HH-ROAD TRIP 40 Channel CB Handheld - Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. SoundTracker® system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna. Dim: 6.75" h x 2" w x 1.75" d.... **\$79.99**

75WXST Compact/Remote CB Radio - 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 4.2" h x 2.7" h x 1.8" d; 1.85 lbs..... **\$99.99**



GPX-1 Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation..... **\$44.99**

WILSON
W-1000 5 ft. base loaded mobile antenna. Available in three mount configurations. All come with 18 ft. cable and PL-259 connector.

ROOF thru-hole mount..... **\$57.99**

TRUNK mount..... **\$65.99**

MAGNET mount..... **\$76.99**

LITTLE WIL 38 in. base loaded magnet mount antenna..... **\$31.99**



We accept I.M.P.A.C.® Government Credit Cards

Uniden CB Radios



PC-68XL 40-Channel CB Radio - Front microphone jack; Backlit controls; S/Rf meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 6.25" w x 2.1" h x 9" d; 3 lbs **\$74.99**

PC-68LW Same basic features as the PC68XL but with NOAA weather and alert..... **\$79.99**



PC-78XL 40 Channel AM Mobile - PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED Dim: 7.25" w x 8.625" d x 2.375" h; 4 lbs. 3 oz **\$94.99**

PC-78LW Same basic features as the PC78XL but with NOAA weather and alert..... **\$99.99**



PC-78 ELITE 40-Channel CB with Ergonomic Pistol Grip Microphone - Combines CB with 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/Rf/SWR meter; RF and microphone gain; Delta tune. Switches for: S/Rf/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control. Dim: 7.59" w x 8.89" d x 2.64" h; 4 lbs. 3 oz..... **\$119.99**

PC-68 ELITE 40-Channel CB - Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2" w x 5.4" d x 2.1" h; 3 lbs. 11 oz **\$99.99**

PRO-538W

PRO-510XL
PRO-520XL



PRO-510XL Compact 40 Channel AM Mobile Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/Rf LED meter. Dim: 4.5" w x 1.4" h x 7.5" d; 3 lbs..... **\$39.99**

PRO-520XL Compact 40 Channel AM Mobile Looks like 510XL. Instant channel 9 access; 4-segment S/Rf meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter. Dim: 4.5" w x 6.8" d x 1.38" d; 1 lbs. 10 oz **\$54.99**

PRO-538W 40 Channel AM Mobile - Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8" h x 2" w x 8.3" d; 2.6 lbs..... **\$59.99**



uniden Bearcat HANDHELD SCANNERS

Stay on top of News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather and more! A selection of Handhelds, Base/Mobiles to fit your needs.

BC-60XLT-1 30 Channel Programmable Scanner – Coverage: 29.0 – 512 MHz, 10 bands (includes the most interesting "action" bands). Hear Police, Ambulance, Fire, Ham radio, Public Utilities, Weather, and more. Full-frequency LCD display; Manual channel access; Track tuning; Programmable chain search; Scan delay; Lockout; One-touch weather; Keypad lock; Low battery indicator. Uses four "AA" Alkaline or Rechargeable batteries, or included 110V AC adapter. Dim: 2.625" w x 6.75" h x 1.5" d; 10.5 oz **\$89.99**

BC-72XLT 100 Channel Pocket Scanner – Coverage: 25-54, 108-174 and 406-512 MHz. 100 channels/10 bands; Compact design (added flexibility and portability); Close Call™ RF capture technology (instantly tunes signals from nearby transmitters); 10 programmable search ranges (find unlisted frequencies in use in your area); Preprogrammed service searches (Public Safety, Railroad, Air, Marine, CB, GMRS/FRS, Weather, News Media, Ham Radio and Special frequencies); Priority scan; Backlit display with Backlight-on-Squelch (illuminates when there is channel activity); Uses two "AA" Alkaline or Rechargeable batteries, or included 110V AC adapter. Dim: 4.5" h x 2.75" w x 1.25" d; 5.8 oz **\$99.99**

BC-92XLT 200 Channel Pocket Scanner with 800 MHz – Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 200 Channels/10 Bands; 10 Programmable search ranges; 6 preprogrammed service searches; Close Call™ RF capture technology; Backlit display with Backlight-on-Squelch feature; Priority Scan (frequently scans channels designated as Priority channels); Scan delay (helps prevent missed replies); Powered by two "AA" alkaline or rechargeable batteries or included 110V AC adapter. Dim: 2.75" w x 1.75" d x 1.75" d; 5.8 oz **\$119.99**

SC-230 Racing Scanner with 1600 Channels and Race Track Operation – Coverage: 25-54, 108-174, 216-225, 400-512, 806-956 and 1240-1300 MHz (excluding cellular). 1600 channels, typical/2500 maximum; Race Track Ready (preprogrammed with major racing frequencies or program your own); Close Call™ RF Capture technology; 10 Programmable search ranges; 11 Preprogrammed service searches; Weather/S.A.M.E. WX alert; Alpha tagging (ID the driver talking); Quick-key system access (select the systems or race you want to hear by pressing the 0-9 keys); DCS/CTCSS rapid decode (instantly detects and displays the sub-audible tone); Search and store operation (automatically stores found frequencies); Backlit display with Backlight-on-Squelch feature; PC interface (allows programming and remote control of scanner features from a PC); On-air programming (to program multiple units just transmit the driver information using a PC and transceiver, and all scanners update at once); Priority scan; Attenuator; Scan delay; Uses two "AA" alkaline or rechargeable batteries or included AC adapter. Dim: 2.9" w x 4.6" h x 1.4" d; 7.8 oz **\$199.99**

BC-246T 1600 Channel Scanner with TrunkTracker III – Coverage: 25-54, 108-174, 216-225, 400-512, 806-956 and 1240-1300 MHz (excluding cellular). 1600 channels, typical/2500 maximum; Dynamically Allocated Channel Memory (easier to program and use scanner without wasting channels); TrunkTracker III technology (keep up with the action on Motorola, EDACS and LTR systems); Close Call™ RF Capture technology; Alpha tagging; Weather/S.A.M.E. alert; 10 custom search ranges (find unlisted frequencies in your area); 10 preprogrammed service searches; Automatic repeater reverse (automatically tunes to repeater output frequency when a transmission on a common input frequency is found); DCS/CTCSS rapid decode; Pager skip (skips transmissions on common pager frequencies during Search and Close Call operation); Channel alert (alerts when specified channels are active); Backlit display with Backlight-on-Squelch feature; PC control capability (includes cable to transfer information into the scanner). Uses two "AA" alkaline or rechargeable batteries or included AC adapter. Dim: 2.72" w x 4.6" h x 1.26" d; 7.6 oz **\$229.99**

uniden Bearcat BASE SCANNERS

BC-244CLT 30 Channel Programmable Scanner – Coverage: 25-54, 137-174 and 406-512 MHz in 10 bands; Full frequency LCD Display; Manual channel access; One-touch weather scans all seven N.O.A.A. frequencies; LCD Clock/Alarm and Snooze; Priority channel; Channel lockout; Auto delay; Memory back-up. Dim: 8" w x 5.5" d x 3" h; 22 oz **\$99.99**

BC-248CLT 50 Channel Programmable Scanner – Same features as BC-244CLT above, except: 50 channels, 10 bands and 5 banks; Built-in AM/FM radio with 20 Presets; Weather alert; Programmable delay; Automatic squelch; 5 priority channels **\$109.99**

BC-278CLT 100 Channel Programmable Scanner – Same as BC-248CLT above, except: includes 800 MHz and Aircraft (excluding cellular); 100 channels, 5 banks; Programmable search; S.A.M.E. weather alert **\$139.99**



BC-244CLT / 248CLT / 278CLT



BC-350C 800 MHz Base and Mobile Scanner
Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scan speed; Search lockouts; Luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and auto power plug. Dim: 5.2" w x 1.6" h x 6.5" d; 1.6 lbs **\$99.99**



BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD; Dim: 7" w x 2.5" h x 6" d; 4.9 lbs **\$179.99**



BC-796D APCO P-25 Digital Capable Scanner
Coverage: 25 MHz – 1.3 GHz continuous (excluding cellular). 1000 channels (10 banks, 10 priority); AM/FM/WFM modes; Full frequency display; Weather/S.A.M.E. alert; TrunkTracker III (EDACS®, Motorola®, LTR, APCO); CTCSS/DCS decode; Digital operation (including 9600b C4FM and CQPSK); CTCSS/DCS; Control channel only mode; 12 service searches; Alpha display; Alpha tagging; PC control/programming (CD ROM included); Cloning. Includes mounting bracket, AC adapter, DC Power Cable and auto power plug. Dim: 7" w x 2.4" h x 6.5" d; 3.2 lbs **\$549.99**



BC-898T 500 Channel Base/Mobile Scanner with TrunkTracker III – Coverage: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracker™ (Motorola, EDACS and LTR); 1000 talk group ID's (10 lists of 10 Banks); DCS/CTCSS rapid decode; Conventional and trunked search operations; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug. Dim: 10.5" w x 7.3" d x 3.5" h; 3.8 lbs **\$209.99**

ICOM SCANNERS

R-3-26 Communications Receiver

Provides wideband capability from 0.5 to 2450 MHz (cellular blocked). Includes 450 alphanumeric memories. CTCSS. Features a 2 in. TFT color display (or switch to mono color for up to 27-hours of operation). Receive favorite TV shows, scan for wireless cameras like those in race cars. Use as a monitor with a wireless camera. Display to a large monitor or recording device with A/V output. Signal strength and band scope functions assist in finding action. PC programmable, Li-ion battery. Dim: 2.4" w x 4.72" h x 1.28" d; 10.6 oz..... **\$349.99**



R-5-06 Super Wideband Handheld Receiver Covers 495 kHz to 1309.995 MHz (cell blocked), AM, FM, WFM modes. Preprogrammed TV and shortwave memories. Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Weather alert. Crisp audio. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumeric naming of 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; Rechargeable NiCad and DC-in jack. Dim: 2.25" w x 3.4" h x 1" d; 6 oz..... **\$199.99**

R-10-05 General Coverage Pocket Scanning Receiver Covers 500 kHz to 1300 MHz (cell blocked). AM, SSB, FM wide or FM narrow modes. Programmable tuning steps. On-screen spectrum display, 1000 non-volatile memory channels (18 banks of 50 channels). Scanning by bank, mode, or program. Alphanumeric characters can be entered to identify channels and banks. Noise blanker and auto noise limiter. Auto frequency control (AFC); Edge-lit display; 24-hour clock with timer; PC programming capability; Adjustable LCD contrast; Signal indicator; Power-saver; NiCads and wall charger (also will use alkaline or DC). Dim: 2.3" w x 5.1" h x 1.2" d; 10.9 oz..... **\$299.99**

R-10-05 General Coverage Pocket Scanning Receiver Covers 500 kHz to 1300 MHz (cell blocked). AM, SSB, FM wide or FM narrow modes. Programmable tuning steps. On-screen spectrum display, 1000 non-volatile memory channels (18 banks of 50 channels). Scanning by bank, mode, or program. Alphanumeric characters can be entered to identify channels and banks. Noise blanker and auto noise limiter. Auto frequency control (AFC); Edge-lit display; 24-hour clock with timer; PC programming capability; Adjustable LCD contrast; Signal indicator; Power-saver; NiCads and wall charger (also will use alkaline or DC). Dim: 2.3" w x 5.1" h x 1.2" d; 10.9 oz..... **\$299.99**

R-10-05 General Coverage Pocket Scanning Receiver Covers 500 kHz to 1300 MHz (cell blocked). AM, SSB, FM wide or FM narrow modes. Programmable tuning steps. On-screen spectrum display, 1000 non-volatile memory channels (18 banks of 50 channels). Scanning by bank, mode, or program. Alphanumeric characters can be entered to identify channels and banks. Noise blanker and auto noise limiter. Auto frequency control (AFC); Edge-lit display; 24-hour clock with timer; PC programming capability; Adjustable LCD contrast; Signal indicator; Power-saver; NiCads and wall charger (also will use alkaline or DC). Dim: 2.3" w x 5.1" h x 1.2" d; 10.9 oz..... **\$299.99**

ICOM AIRCRAFT RADIO

A-23 Airband HT - Easy to operate featuring a large, clear LCD. Record and play back conversations with the built-in recorder. Large capacity rechargeable NiMH battery is standard. Convenient for carrying with supplied belt clip. Water resistant, JIS-4 grade, allows safe operation in rain. 5W (PEP), 1.5W (carrier) output; All 760 "COM" (108-136.975 MHz) and weather channels; VOR navigation (RX only); 200 alphanumeric memories; PC programmable. Dim: 2.3" w x 4.23" h x 1.2" d; 12 oz..... **\$329.99**



R-20-06 Wideband Handheld Receiver - Hear AM/FM radio and TV broadcasts, wireless communications for boaters, aviation, conventional public safety and many other commercial services. Covers 0.15 to 3304.99 MHz (cellular blocked). SSB/CW/AM/FM/WFM modes; Preset TV sound and shortwave frequencies; 1250 memories (1000 memory, 25 scan edge, 200 auto-write scan); Multiple scan functions (100 channels/second high speed scan capability and Voice Scan Control); Voice Squelch Control opens squelch only when a modulated signal is detected; Dual watch receive; Built-in IC audio recorder with recording time up to four hours; Auto squelch and squelch monitor function; CTCSS/DTCS/DTMF decode; RF gain control and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset monitor capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CL-V PC control capability; Li-ion battery pack (11 hours continuous receive). Dim: 2.28" w x 5.5" h x 1.22" d..... **\$519.99**

MARINE RADIOS

KENWOOD



TKM-707 SSB Marine Transceiver A high performance unit designed to meet stringent marine operation demands. Utilizes heavy-duty, rust-proof, aluminum chassis and highest quality parts to maximize performance. 150W RF output; 2 to 23 MHz Marine operation with 500 kHz to 30 MHz receive; 198 memories; Multi-scanning; Emergency alarm **Special Order \$1249.99**

ICOM

IC-M1V Marine HT All US, Canadian, international and weather channels with alert; Normal and priority scan; "Tag" scan system; 5W; Dual/tri-watch; PC programmable; Alpha-numerics; Water-proof; 1400 mAh li-ion battery. Dim: 2.1" w x 5.5" h x 1.18" d; 9.9 oz..... **\$199.99**

IC-M32 VHF Marine Handheld Transceiver All International, USA, Canadian and weather channels; Weather scan and alert; Instant channel 16; 5 Watts output; Convenient tag scanning; Dual and tri-watch; Backlit 9-button keypad; Easy-to-see backlit LCD; Battery life indicator and two-step power saver; Squelch and volume level indicator; Rugged and waterproof (equivalent to JIS Grade 7); Includes NiCad pack, desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.4" w x 5.3" h x 1.6" d; 12.7 oz..... **\$149.99**



ICOM

MARINE RADIOS



IC-M302W02 VHF Marine Transceiver All International, USA, Canadian and WX channels and alert; Instant channel 16; 25 or 1W output; Dual/tri-watch; GPS connection; Large backlit LCD shows channel numbers and names up to 10 characters; Built-in DSC capability (send a formatted distress message); High sound pressure speaker; External speaker connection; Rugged, waterproof (JIS Grade 7); Includes hand microphone, mounting bracket kit and DC power cable. Dim: 6" w x 2.6" h x 5.2" d; 1.8 lbs **\$199.99**



IC-M402W02 Marine VHF Radio All US, Canadian, international and 10 WX channels with alert; Normal/priority scan; Dual/tri-watch; 2-digit LCD with scrolling channels; 4-level back-lighting; Key illumination; DSC capability; Built-in SC-101 selective calling; GPS repeater (with added GPS); "Tag" scan; 25W/1W; Waterproof. Dim: 6" w x 2.6" h x 5.5" d; 2 lbs **\$199.99**



M-710 SSB Marine Transceiver - Rugged, 150W, 136 channels, 160 programmable memories. PC programmable; Large LCD with alpha-numeric readout. General version without 2182 kHz alarm, marine bands only..... **Special Order \$1399.99**



M-802 Marine SSB Transceiver w/DSP - Large backlit LCD with dot matrix characters. Built-in digital selective calling, one-touch e-mail and GPS input. RX: 0.5-29.99 MHz; TX: 6-2.99, 4-4.99, 6-6.99, 8-8.99, 12-13.99, 16-17.99, 18-19.99, 22-22.99, 25-27.5 MHz. Modes: J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), M3E (AM, RX only). Channels: 1355; Power: 20/60/150W output. Dim: 9.2" w x 3.7" h x 9.1" d; 10.3 lbs. Controller Dim: 8.3" w x 4.4" h x 3.1" d; 1.2 lbs. Speaker Dim: 4.4" w x 4.4" h x 3.1" d; 0.8 lbs. **Special Order \$1749.99**

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MARINE RADIOS



ATLANTIS-250 Hand-held 2-Way VHF Marine – All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability..... **\$99.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus; Channel 16 and 9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Li-Ion battery; AC/DC adapter and charging cradle; Flexible rubber antenna; Meets JIS7 waterproof specifications. Dim: 3.8" h x 2.4" w x 1.3" d; 8.8 oz **\$159.99**



MHS-350 Handheld Marine 2-Way VHF Radio All USA/international and Canadian marine channels – keeping you up-to-date with all the latest marine activity. All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W; Meets JIS7 waterproof specifications; Triple Watch Plus™ (monitor emergency channel 16 and 9, another user selectable channel, plus weather alert); Largest backlit LCD in its class; Rubber grips and seal **\$149.99**

MYSTIC VHF Marine Handheld with GPS/DSC – 5W output; Integrated mapping WAAS GPS – send, receive and mark directly on a map accurate vessel or individual positions. Includes CD of all U.S. street data (up to 32MB can be loaded at any given time); Large VGA display for all charting, mapping and radio functions; Fully submersible construction; Supplied with Li-ion battery, AC/DC chargers and charging cradle. Dim: 6.9" h x 2.6" w x 1.4" d..... **\$339.99**



SCANNER CLOSEOUT

Covers 29–511 and 806–956 MHz including Aircraft and 800 MHz (cellular blocked). 300 channels (10 priority), 12 bands, 10 banks. VFO control; One-touch weather and alert; Manual channel access; CTCSS; Trunk search; Scan and search; Lockout; Delay; Signal strength meter; Auxiliary tape output; Automatic store; 30 trunking channel indicator annunciators; 3-day memory backup; Dim: 10.875" w x 3.625" h x 7.5" d; 3.5 lbs.



uniden
BC-895XLT "TrunkTracker" \$189.99
Closeout



SOLARA-DSC 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector..... **\$119.99**

SOLARA Above w/o DSCCloseout **\$99.99**



OCEANUS-DSC Full Featured VHF Marine Radio – Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ – monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **\$139.99**



POLARIS VHF Marine with Digital Selective Calling and Hailer All USA, International and Canada channels; Instant channel 16/9; 1/25W transmit; Wireless mic capability – works with up to two wireless mic accessories; GPS input capable; Backlit LCD and keys (including microphone); S.A.M.E. weather alerts; Triple Watch Plus™; 2-way hailer; Memory and weather scan; Assign channel names; Group call feature; Calling radio position indications with external GPS; Waterproof to JIS4/CFR46 standards. Dim: 3.07" h x 7.24" w x 6.61" d; 2.65 lbs **Closeout \$179.99**



UM-525 25W Marine VHF Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select **\$199.99**



UM-625 25W VHF Marine Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that can be seen from any angle in sunlight. Rugged commercial construction with highest rated receiver performance (85dB intermod nominal); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic, with one-touch channel 16/9 key and up/down channel select..... **\$299.99**

YAESU AIRCRAFT RADIO

VXA-700 "Spirit" Airband Transceiver (4 transceivers in one!) – AM airband, 2M Amateur, NAV-COM, VOR/CDI display (121.5 MHz emergency)



NOAA WX with alert; FM broadcast band receive (88–108 MHz); Submersible at 3 ft. for 30 minutes; Magnesium die-cast case (superior RF noise shielding plus ruggedness); High res., backlit, dot-matrix display; 190 alphanumeric memories;

Back-lit keypad; 5W output. Supplied with 1300 mAh Li-ion battery, 117V AC charger, headset adapter, antenna and belt clip **\$419.99**



GPS-12XL Personal Navigator™ for Extreme Outdoor Enthusiasts – A 12 channel receiver with external antenna for fast, accurate position fixes in tough conditions like tree canopy and urban obstructions. Rugged, compact case ideal for boaters, hunters or hikers. 500 user waypoints with alphanumeric name and user comments. 20 reversible routes of up to 30 waypoints each. TracBack™ navigation turns a track log into a route back home. Nine waypoint alarms. Over 1000 track log points, position averaging, emergency erase, and cloning features. Up to 12 hours on 4 "AA's" **\$219.99**



GPS-60 Personal Navigator – A 12 channel GPS receiver with WAAS. Backwoods, boundary waters, blue highways, wherever your spirit of adventure calls, the GPS-60 is your trusted guide to the great outdoors. It's rugged, waterproof, and as extra-precise as WAAS can make it. Accepts downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. 1MB internal memory for optional MapSource® Points of Interest data; 10,000 points track log to retrace your path; TracBack™ to a selected point function; Built-in celestial tables for best times to fish and hunt; Stores 500 waypoints and 50 routes; Audible beeper alarm with configurable tones; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4" w x 7.1" h x 1.3" d **\$179.99**

GPS-MAP60 Map Navigator – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by turn routing capability shows cities, interstates, major roads and more. Accepts up to 24MB of download data from optional MapSource® CD for greater map display detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. 10,000 point tracklog to retrace your path; TracBack™ to selected point function; Built-in celestial tables for best times to fish and hunt; Stores 500 waypoints and 50 routes; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries; Up to 24 MB of data; Separate USB and serial port interfaces. Dim: 2.4" w x 7.1" h x 1.3" d **\$299.99**

GPS-72 – A low-cost solution for land and marine navigation, providing precise positioning using WAAS data. Built-in quad helix antenna; High-contrast, gray-scale display with "large number" option; Backlit display & keypad; Permanent data storage; Water resistant; 500 name and graphic waypoints, 50 reversible routes; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed **\$149.99**



GPS-V DELUXE – North American turn-by-turn navigation with auto-routing. Display prompts and audible alerts for turns, course deviation, and distance. Built-in, routable basemap provides detail for U.S. interstates, exits, highways, rivers and lakes, plus popular metro streets. MapSource MetroGuide provide residential detail. Look up services, points of interest. View address, phone and map location. 500 user waypoints; 20 reversible routes; Trip computer with odometer, stopped time, moving/overall average or total time, max. speed; Auto track log, 10 saved; Permanent data storage; 25 hours from 4 AA batteries; Includes mount, cigarette lighter adapter, PC cable and City Select software. Dim: 2.32" h x 5.0" d x 1.62" w; 9 oz **\$299.99**

ST Pilot 2610 Street Pilot 2610 GPS Unit – Choose a destination using StreetPilot's touch screen or remote control unit and the route will be automatically calculated with turn-by-turn directions and voice prompts. Built-in basemaps containing state and country boundaries, lakes, rivers, streams, airports, cities, towns, coastlines, state and interstate highways, local thoroughfares and secondary roads within metro areas, federal interstate highway exit service information; Accepts downloadable map detail from Garmin PC-based MapSource City Navigator CD-ROM (included), which provides street-level detail, addresses, listings of nearest restaurants, hotels, ATMs and more; Alphanumeric remote control; Bright, automotive-grade 8-bit, 256-color LCD with automatic dimming backlight and 305 x 160 pixel. Dim: 3.3" w x 1.7" h (touch screen); 5.6" w x 3.2" h x 2.0" d **\$699.99**

RINO-120 GPS-Enabled Hand-held for FRS & GMRS – Two-way communications up to 2 miles using FRS or 5 miles, using GMRS; Power: 0.5/1W (FRS/GMRS); 14 channels, 38 squelch codes; VOX; Voice scrambler; Vibration mode for "silent" calls; 12-channel, GPS receiver provides position accuracy of less than 10 ft.; Peer-to-Peer positioning to transmit GPS location, showing distance and bearing; Navigation features: extensive waypoint storage, TracBack, multiple position formats and built-in trip computer; Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's **\$249.99**

IQue-M5 Pocket PC integrated with GPS – Loaded with Microsoft Pocket Outlook®, Word®, Excel® and Internet Explorer applications. Conduct business or personal travel travel from point to point without stopping for directions. Don't be late! Calendar and contact information is seamlessly integrated with GPS navigation functions and it can remind you of appointments, show the location on the map, and route you there with detailed, turn-by-turn direction and voice prompts. Integrated speaker; Microphone; 3.5mm stereo headphone jack; 1250mAh lithium polymer rechargeable battery; 240 x 240 pixel TFT color display **\$699.99**



eTrex (left) 12-parallel-channel GPS receiver and internal patch antenna packaged in a waterproof case. Side operating buttons for larger display area. Simple menus and logical operations make position marking easy. Compass or map navigation; Zoom keys; 500 user waypoints with name and graphic; 1 route with 50 waypoints; Resettable trip computer; Auto track log, 10 saved tracks to retrace a path; Up to 22 hours use with 2 AA alkalines. Dim: 4.4" h x 2" w x 1.2" d; 5.3 oz. **\$99.99**

eTrex SUMMIT™ Hiking Companion (right) Similar to the eTrex but includes a barometric altimeter and electronic compass **\$179.99**



GEKO-101 Perfect for navigational novices. Features such as one-touch waypoint marking make it a snap to use. Easily maneuver from one waypoint to the next using its 250-waypoint storage capacity with symbols, and trace along a route with PanTrack™. Five buttons for one-hand use; High-contrast display – 64 x 100 pixels with LED backlighting; 12-hour battery life on 2 AA's; Automatic 3,000 track-point storage with PanTrack™ and TracBack™; 30 min. water submersion at one meter. Dim: 1.9" w x 3.9" h x .96" d; 3.1 oz **\$99.99**

GEKO-201 Allows more waypoint and route storage, as well as available PC and external power connectivity. It also offers built-in WAAS capability. Has a user-configurable trip computer and 10,000 track-points, as well as PanTrack™ and TracBack®. 10 feet accuracy or less with WAAS; Five buttons for one-hand use; 64 x 100 pixel, high contrast display; 12-hour battery life on 2 AA's; 500/20 x 125 waypoint/route storage; Automatic 10 track storage; 30 min. submersion at one meter; Includes four interactive, outdoor games! Dim: 3.9" h x 1.9" w x .96" d; 3.1 oz. **\$139.99**



GPS-18 Package Turn a laptop into a street navigator using a GPS 12-parallel-channel, WAAS-enabled sensor bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Includes highways, interstates, businesses, residential roads, turn restrictions, speed categories and other navigation features; plus 5 million+ points of interest (restaurants, lodging, attractions, emergency, post offices). Automatically guides with turn-by-turn directions and voice prompt. Available in either serial or USB connection and is designed to plug into most laptop PCs.

GPS-18PC DLX Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software. 2.4" dial. x 0.75" h; 6.5 oz. **\$129.99**

GPS-18USB DLX USB connection sensor, magnetic base, windshield mount and software. Uses PC's power. 2.4" dial. x 0.75" h; 3.5 oz. **\$129.99**



IQE-3600 PDA with Integrated GPS (right) – The power of Palm OS integrated Que 5, Garmin GPS and mapping software. Look up appointments or contacts and get routing to their location with voice-guidance! ARM processor enhances battery life, screen re-draw, graphics, and audio; SD expansion slot for storage; Flip-up, integrated GPS patch antenna; MP-3 player; Memo playback; Voice recorder; Rechargeable internal battery; 32MB memory; Soft cover, metal stylus; Choice of Americas or Atlantic MapSource®; Large, high res, color display. Dim: 2.8" w x 5" h x 0.8" d... **\$549.99**

ciQue™ 1620 CompactFlash® GPS Module (left) Features new Que technology for high-performance GPS location, mapping, and street-level navigation to PDAs using PocketPC platform. Location awareness, address look-up, electronic mapping, auto route, and off-route recalculation; Basemap with highways, major streets, rivers, lakes, coastal waters; 64MB; Voice guidance (on capable units); Flip-up, adjustable antenna; Type I or II CompactFlash slot installation; PDA mount; MapSource City Select®. Dim: 1.7" w x 2.0" h x 0.5" d; 1.5 oz... **\$249.99**

FORERUNNR 101

GPS/Personal Training Device – For athletes, runners/recreational walkers. Easy-to-read display, adjustable wristband and integrated GPS sensor. Calculate speed, distance & pace. Virtual Partner™ allows input of time, distance and pace goals; then shows you're progress. With GPS navigation capabilities, mark specific locations, look up and navigate to these points, retrace or reverse normal route. Provided downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for plotting and analyzing regimen. Includes wristband, A/C charger with PC interface, manual and quick start guide. Dim: 3.3" w x 1.7" h x 0.6" d; 2.75 oz **\$149.99**



FORETREX™ 101

Personal GPS Navigator Ruggedized for adventure, this wrist-top device is perfect for kayaking, canoeing, sailing, hiking, and for those who want a lightweight, waterproof, affordable GPS. Hands-free navigation data and 6 dedicated buttons, making it easy to operate. Provides the most essential data, enhanced accuracy, extensive waypoint storage, reversible routes and track info, and TracBack technology (retrace an exact path). Also offers PC compatibility for waypoint, route and track management. Includes wristband, strap ext., owners manual/quick start guide. Uses 2 AAAs, 15 hours of operation. Dim: 3.3" w x 1.7" h x 0.6" d; 2.6 oz... **\$129.99**

The Meridian™ – Magellan's Premier Line of rugged GPS handheld receivers, designed with serious navigators in mind.

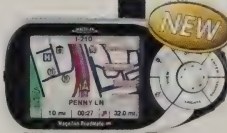
MERIDIAN™ GOLD

(left) – Expanded memory capacity for downloading maps with optional SD cards in 8, 16, 32 and 64MB; Large backlit display for easy map viewing; Rugged rubber armoring and high impact plastic for use in the harshest environments; Supports several languages including: English, French, German, Swedish, Finnish, Spanish, Italian, Portuguese, and Dutch; Save Track-to-Route; Satellite status display; Built-in help; Northfinder with sun/ moon positions; Sunrise/set calculator; 16MB database of U.S. cities, interstate/state highways, political boundaries, major waterways and airports; Store 20 routes, 500 waypoints and 2,000 trackpoints; Vertical profile of track and horizontal profile (MapSend Topo USA required); Address Search (requires any MapSend software) ... **\$249.99**

MERIDIAN™ PLAT (right) Meridian™ Platinum Possesses all features of the Meridian Gold and adds electronic compass and barometer that tracks barometric pressure like a weather station **\$349.99**

MERIDIAN COL Meridian Color – Top of the Meridian line of superior, rugged GPS receivers. Shows location on the industry's first full-color screen in a handheld GPS. Comes preprogrammed with extensive 16MB map, including highways, major roads, parks, nav aids, waterways, airports and more. Vivid color, 120 x 160 pixel display; Superior tracking even in dense foliage and urban environments; Rugged design with high-impact housing of wrap-around rubber – it floats!; Infinitely expandable via industry-standard Secure Digital memory cards; Up to 13 hours of continuous battery operation; Use optional MapSend® CDs to map out trips; Includes two AA batteries, PC cable, lanyard. Dim: 6.5" h x 2.9" w x 1.2" d; 8.5 oz... **\$399.99**

ROADMATE™ 300 – WAAS enabled, 14-channel GPS receiver. Know where you are within 3 meters. Offers vehicle navigation with turn-by-turn multiple destination guidance, friendly voice prompting and the latest touch screen technology. Includes a built-in map of major roads and highways. North American drivers can simply turn it on and go to most cities in the continental United States and Canada without connecting to a PC. Easy door-to-door navigation to any street address. Using the RoadMate manager PC application, it's easier than ever to download the most up-to-date, fully unlocked, street-level NavTeq map data. Full flexibility to handpick and save detailed maps to the internal memory, which stores up to 110MB of map data. 300 to provide reliable and accurate information due to its Magellan TrueFix Technology, which provides a for faster, reliable GPS signal reception and extreme positioning precision. **\$699.99**



All SportTraks feature 12-parallel-channel, WAAS receiver; Satellite tracking with advanced Quadrifilar Helix antenna; 2.3" x 1.4" display; Backlit screen and keypad; 500 waypoints; 20 routes; 2000 track points; 76 datums; Indefinite data back-up, stored in non-volatile flash memory; Multi-language; Impact resistant, waterproof case.



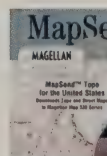
SPORTRAK Sporty, GPS system with worldwide database of major cities. Includes worldwide city points-of-interest. 1 MB built-in memory for additional points; 9 screens: Status, Position, Nav 1, Compass, Nav 2, Plot, Road, Speed, and Time; Alarms for proximity, arrival, anchor, cross track, error and GPS; Satellite status; Northfinder sun/moon positions; Sunrise/set, best fish/game calculators; Up to 14 hours use on 2 AA's. Dim: 5.6" h x 2.2" w x 1.3" d; 6.1 oz... **\$169.99**



SPORTRAK MAP A sporty, pocket-size, GPS system that includes mapping; 2MB database with interstate/state highways, parks, waterways, airports and cities; 4MB memory for downloads; 7 user-configurable screens: Map, Compass, Large Data, Position, Road, Speedometer, Trip Compass; Full 3D top support; Alarms for proximity, arrival, anchor, XTE and GPS; Save-track-to-route; Satellite status display; Built-in help; Northfinder sun/moon positions; Sunrise/set, best fish/game calculators; Horizontal profile and address search; PC cable; 2 AA batteries for up to 14 hours. Dim: 5.6" h x 2.2" w x 1.3" d; 6.1 oz... **\$199.99**



SPORTRAK PRO Pocket-sized GPS with 32MB memory; 9MB database (interstate/state highways, major roads, parks, waterways, airports, cities, and marine navigation aids); 23MB memory for downloads; Full 3D top support; 7 user-configurable screens: Map, Compass, Large Data, Position, Road, Speedometer and Trip Compass; Alarms for proximity, arrival, and anchor; Save-track-to-route; Satellite status display; Built-in help; Northfinder with sun/moon positions; Sunrise/set, best fish/game calculators; Horizontal profile and address search; PC cable; 2 AA batteries for up to 14 hours. Dim: 5.6" h x 2.2" w x 1.3" d; 6.1 oz **\$269.99**



MapSend Topo USA™ CD

You can download highly detailed maps into the Magellan SportTrak PRO and Map Meridian™ products and others. Maps include U.S. topography, trails, streets, rivers, lakes, coastlines, and points of interest. Map sizes and regions are user-selectable and customizable. Create waypoints and routes and download them into a GPS, or save them to a PC. Download personal tracks to view on MapSend. Use the Search to find street addresses, cities, bridges, airports, caves, parks, campgrounds, mines and more. **MAG 980611 \$99.99**



SINGLE BAND HANDHELD

AT-201HP 2M HT - TX: 144-148 MHz, RX: 130-179 MHz. MARS and CAP capable. Power: 5W with supplied 12V battery. User selectable frequency or channel display. Auto repeater offset; Dual frequency watch; 40 Memory channels; Programmable band and memory scan; CTCSS encode/decode; DTMF paging; Rugged metal case with backlit keypad and display. Dim: 4.25" h x 2" w x 1.3" d..... **\$99.99**

Available Accessories

CHA120 Wall charger for RBP120/RBP22, PCA145 Cigarette lighter cable, RBP120 12V 700mA NiMH, SD911 Rapid charger



SINGLE BAND HANDHELD

DJ-196T 2 Meter HT - 5W output; 135-174 MHz receive; 40 multi-function memory channels; MAR/CAP capability; Alpha-numeric display; CTCSS tone encode/decode & DCS; S-meter; Auto dialer; Cable cloning; Computer programming capability; Theft alarm; Experimental insect repeller; Back lit keypad. Dim: 4.9" h x 2.2" w x 1.6" d; 13.2 oz **\$139.99**

DJ-296T 222 HT Same as DJ-196T except has a range of 222-225 MHz..... **\$179.99**

DJ-496T 440 HT Same as DJ-196T (above) except has a range of 430-450 MHz..... **\$149.99**

Available Accessories

EB6 Mobile HT bracket, EBP48N 9.6V 700mA 5W NiCad battery, EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EBP56N 7.4V 1000mAh lithium battery, EDC111 Charger for EBP56N, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, ERW4 PC cable, ESC36 Soft case for EBP48N



DJ-S40T Pocket-sized UHF HT - Covers 420 to 450 MHz, with receiving capabilities beyond the range. 500mW power output; can be increased to 1W by using optional NiMH or external DC supply. 100 memories; Call channel and several scan modes; Newly designed case that conceals the speaker but provides loud, clear audio; 38 CTCSS en/decode settings (decode standard); 4 tone bursts, making it usable for repeaters in many parts of the world; Large, easy-to-read, illuminated display; Experimental "mosquito repelling feature"; Theft alarm function; Cloning capability; Use with crossband transceivers (base or mobile dualband) as a "remote mic" **\$89.99**

Available Accessories

EB6 Mobile HT bracket, EBP52N 3.6V 500mAh NiMH battery, EBP53N 6V 500mAh NiMH battery, EBP54N 3.6V 1500mAh NiMH battery, EDC105 Drop-in NiMH charger without power supply, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC93 Wall power supply for EDC105, EDH31 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, EMS8Z Remote speaker mic, ESC37 Soft case



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External DSP HF Radio Modem

Operates:

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AMTOR / CLOVER II**
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Enjoy MaX Performance from the Xperts!

DM-330MVT

Communications Grade Switching Power Supply

Alinco's Xperts have reinvented the power supply! Xtremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32 A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. *Xtra versatile, use for travel, station or test bench.*



EDX-2 Automatic Wire Antenna Tuner

Xtreme users want to get on the air fast! Ground it, connect a wire and plug it into your rig. Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for indoor/outdoor mounting, use at home, mobile or in the field. Outputs directly to a wire or whip antenna only (no coax output).



DJ-X2000T Multimode Wide Range "Intelligent" Receiver

Monitoring Xcitement is found in the "Intelligent Receiver" from 100 KHz ~ 2150 MHz* with 2000 memory channels, alpha-numeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo.** On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, *instant "flash tune" and many Xtras!*



DJ-X3TD Multimode Wide Range Communications Receiver

Xceptional and unique! Small but powerful. Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. 700 memory channels, dry cell battery pack, four scan modes, stereo FM reception.** *Download free control software from www.alinco.com*

DJ-X10T Multimode Wide Range Communications Receiver

Xtraordinary reception from 100 KHz ~ 2 GHz* with 1200 memories, alphanumeric display, Channel Scope™ Display, receives WFM, NFM, USB, LSB, AM and CW. Internal HELP feature, seven scan modes, clock with on/off function, "new user" and "eXpert" operating modes, BNC antenna connector, cloning function, *and an Xtensive array of custom settings.*



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*Cellular blocked in USA. Unlocked versions available to qualified users; documentation required. **Optional stereo headphones required. Specifications subject to change without notice or obligation.

Experience how Alinco Quality delivers Maximum Value!

DJ-C7T 2m+440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! **Xtremely versatile dual-band HT.**



DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, xtended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. **Xcellent performer!**



DJ-196T (2m), DJ-296T (222 MHz), DJ-496T (440 MHz) HT

Backlit keys, alpha display, 40 memories, CTCSS and DCS encode+decode, autodial, 13.8 VDC input, and more! High-power battery is standard. **Xtra handy!**



DJ-S40TD 440 MHz HT

Pocket HT features 500 mw output on AA cells, up to 1 watt using an optional NiMH battery. 100 memories, CTCSS encode+decode, SMA antenna, great audio, theft alarm and more! **Xtremely small but packs a punch.**



DR-605TQ 2m+440 FM Mobile/Base

Xtra value! 50 watts VHF/35 watts UHF, 51 memories/band, crossband repeat, 430 ~ 449.995 range allows for satellite comms, dual watch. **Check the LOW price!**



DR-135T/TP MKII (2m), DR-435T MKII (440 MHz), DR-235T (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, **Xtra rugged!** Accepts optional digital voice communications board.



DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Xpanded receive; optional digital voice communications board and more! **Xtend your abilities!**



DR-620T 2m+440 Mobile/Base

Xceptional features! Removable head, speaker faces up or down, changeable color alpha display, 200 memories, H/M/L output, V/U, V/V, U/U, WFM and AM Air Xtended RX, TCXO, theft alarm, **options include TNC or digital voice module, remote mount kit.**



DR-MO6TH 6m/20 watts FM Mobile/Base

"Magic band" **Xcitement** with local and DX FM contacts, simplex or through repeaters. **Includes CTCSS encode and 100 memories.**



DX-70TH (100w) HF+6m Mobile/Base/Portable

160 ~ 6m Amateur band TX in all modes, Xtra coverage RX from 150 KHz ~ 30 MHz and 50 ~ 54 MHz. Removable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more!

Optional Xcessories include EDX-2 wire antenna tuner & DM-330MVT power supply.



DX-77T HF Base/Portable

Xcellence at a great price! 160 ~ 10 meter Amateur band TX all modes; 500 KHz ~ 30 MHz general coverage RX. Clean, clear audio, low noise floor from DDS, 100 memories, easy to operate. **Speech compressor, CTCSS encode for 10m FM operation, CW filter.**



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* Cellular blocked in USA. Unlocked versions available to qualified users, documentation required.

SINGLE BAND HT

DJ-S11T Sub-Miniature VHF HT – TX/RX: 144-148 MHz; 340 mW output; 20 multi-function memories plus 1 call; Encoder installed (50 tones); Illuminated display; Uses 3 “AA” or NiCad batteries; Pivoting antenna. Dim: 4”h x 2”w x 1”d; 6.5 oz **\$79.99**

Available Accessories

EBC6 Mobile HT bracket, EDC78 Wall charger (not alkaline), EDH18 12V/5.5V DC cigarette lighter plug, EME12 Headset/earphone/microphone with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Ear-phone/microphone with VOX, EME20 Tie-pin microphone/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, ESC27 Soft case

DJ-596T MK II 2M/440 MHz Dual Band HT – The first Amateur HT to support optional Digital Voice communications. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; Extended receive capabilities; CTCSS and DCS encode and decode; Three scan modes; Work and save in memory any number of “odd split” transmit and receive offsets; Illuminated keys and display; Large display shows alphanumeric designations for each of the 100 memories; Theft alarm and experimental “mosquito repelling sound”; 9 autodial memories; ± 2.5 ppm crystal; External terminal control can output 5 VDC @ 5mA from mic jack, can be used by experimenters to control external devices; Operates on 6-16VDC, battery charges while on external source. Dim: 4.9”h x 2.2”w x 1.6”d; 13.2 oz **\$209.99**

Available Accessories

EBC6 Mobile HT bracket, EBP48N 9.6V 700mAh 5W NiCad battery, EBP50N 9.6V 700mAh 5W NiMH battery, EBP51N 9.6V 1500mAh 5W NiMH battery, EBP56N 7.4V 1000mAh lithium-ion battery, EDC111 Charger for EBP56N, EDC168 Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EJ47U Digital board, EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ESC36 Soft case for EBP48N, SW596 Windows programming software

DUAL BAND HTS

DJ-V5TH VHF/UHF Dual Band FM HT – Full 2 meter and UHF Amateur band coverage. Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked), includes wide FM capability; Split-band operation capability; Eight different tuning steps; Alpha-numeric display – up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; MARS and CAP capability; Auto-dial memories; Auto high temperature protection feature; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input. Dim: 4.5”h x 2.25”w x 1.75”d; 13 oz **\$209.99**

Available Accessories

EBP46N 9.6V 600mAh 5W NiCad battery, EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC91 Quick charger, EDH29 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Ear-phone, EMS47 Speaker mic with volume control, EMS8Z Remote speaker mic, ESC35 Soft case for EBP45N/46N

DJ-C7T Credit Card Size VHF/UHF Dual Band Micro Handheld – Covers 2M and 70cm FM amateur bands and receives wide-band broadcast FM, AM aviation band and VHF/UHF utilities up to 512 MHz. TX/RX: 144-145.995, 430-439.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels (5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Programmable shift width and direction; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver; Auto Power off. Dim: 2.3”w x 3.8”h x 0.57”d; 3.6 oz **\$169.99**

Available Accessories

EBP58N Lithium-ion battery, EDH32 Cigarette lighter cable, ED57 Microphone adapter, EME18 Earphone, EME24 Earphone/microphone, EME25 Ctl cord earphone, EMS60 Speaker/microphone, ESC38 Soft case

ICOM® SINGLE BAND HTS

IC-T2H SPORT 2M Handheld 6W @ 9.6 VDC; 136-174 MHz RX; 43 memories; CTCSS encode & decode standard, with pocket beep & tone scan; 8 programmable keys; 5 DTMF memories, with 32-digit codes & radial; 10 weather channels; Direct keypad frequency entry; Backlit LCD; Auto repeater and “intuitive” help functions; 2-step power save; Monitor and lock functions; Die-cast aluminum chassis and polycarbonate casing; MIL SPEC C/DE rating; Includes battery holder. Dim: 2.3”w x 5.5”h x 1.3”d; 14.8 oz **Call or Check our Website**

Note: with the IC-T2H SPORT and a PC you can download up to 40, stored, pre-programmed frequencies, such as in a repeater directory, from your PC directly into the SPORT. PC-to-SPORT and SPORT-to-SPORT cloning requires optional software and cables.

Available Accessories

AD81 Adapter for BC11911, BC110A Wall charger, BC119N01 Desk charger, BC122A AC adapter for BC133, BC133 Drop-in trickle charger, BP194 “AA” alkaline battery case, BP195 9.6V 700mAh battery, BP196 9.6V 1050mAh battery, CP12L Right angle cigarette cable with filter, CP17L Right angle cigarette cable for charger, CS2T DOS programming software, CSWH4 Windows software with cable, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset/use with VS1L, LC35WIVEL Leather case with swivel, LC145 Carrying case, MB68 Extra standard belt clip, MB74N Spring loaded belt clip, MB87 Swivel belt clip, OPC254L Right angle mini DC cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, SP133 Earphone, VS1 VOX-PTT unit for HS94

IC-V82 2M High Power Digital Capable Handheld – 7W output @ 7.2V DC; 6.0 - 10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice and slow data comm. (20-character short data message, digital code squelch, EMR comm., digital pocket beep, Stand-by beep); Built in CTCSS/DTCS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); VHF/UHF air band receive; Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1”w x 5.5”h x 1.4”d; 13.8 oz **\$209.99**

IC-U82 – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W **Special Order \$209.99**

Available Accessories

BC144N Rapid desk charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh lithium-ion battery, BP222N 7.2V 600mAh 5.5W battery, CSV82 cloning software, HM128L Rectangle plug earphone + mic, HM131L Rectangle speaker/mic/ear-jack/clip, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Earhook headset w/bloom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS232C cable, OPC478U PC USB cable, SP133 earphone, UT108 DTMF decoder unit, UT118 Digital unit (digital voice and data capability at 4.8kbps - voice and data), VS1L PTT/VOX unit

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ICOM® SINGLE BAND HT

IC-V8 2M FM HT – None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down and Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Includes a drop-in trickle charger. Dim: 2.13" w x 5.2" h x 1.4" d; 12.3 oz. **Call or Check our Website**

Available Accessories
AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BP144N Rapid Desk Charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh Li-ion battery, BP222N 7.2V 600mAh 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM128L Earphone + mic, HM131L Speaker/mic/earphone jack/clip, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset, LC136G Swivel Leather case with swivel, MB103 Spring loaded belt clip for N-Series battery, MB68 Extra standard belt clip, MB74N Spring loaded belt clip, MB87 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decode unit, VS1L Right angle VOX-PTT unit for HS94

Available Accessories
AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BP144N Rapid Desk Charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh Li-ion battery, BP222N 7.2V 600mAh 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM128L Earphone + mic, HM131L Speaker/mic/earphone jack/clip, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset, LC136G Swivel Leather case with swivel, MB103 Spring loaded belt clip for N-Series battery, MB68 Extra standard belt clip, MB74N Spring loaded belt clip, MB87 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decode unit, VS1L Right angle VOX-PTT unit for HS94

MULTI BAND HTS



IC-T7H 2M/440 MHz Dual Band HT – 5W with standard 9.6V/650mAh battery or up to 6W @ 13.5VDC (optional DC power cable required); TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; Wall charger; PC Programmable. Dim: 2.3" w x 4.8" h x 1.1" d; 14.3 oz. **\$219.99**

Available Accessories

AD56 Battery pack adapter/rapid charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP173 9.6V 600mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CS17 DOS programming software, CSWH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty spkr mic, HM75A Remote control mic, HS10 Boom mic/headset, HS10SA VOX unit, HS10SB PTT switchbox, HS85 Headset with VOX, HS94 Earpiece headset, LC136 Case for T7H with BP170/171/172, LC137 Case for T7H with BP173/180, NCP1 Nylon chest pack, OPC254 Mini DC power cable, OPC254L Right angle mini DC power cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



IC-W32A 2M/440 MHz Dual Band HT – TX: 144-148 & 440-450 MHz; RX: 118-174 & 400-470 MHz; 5W output @ 13.5V DC; 200 memories; 8-character alphanumeric memory identification; Keypad entry; Backlit display and keypad; HT-to-HT cloning capability or PC programming (optional accessories required); Independent tuning and volume and band controls; VHF/UHF exchange function allows assignment of VHF/UHF band controls to either knob; Meets MIL SPEC C/D/E for shock and vibration. Dim: 2.25" w x 5.5" h x 1.4" d; 16 oz. **\$289.99**

Available Accessories

AD51 Battery pack adapter/rapid charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP173 9.6V 600mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CSWH4 Windows software with cable, CSW32 DOS programming software, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS10 Boom mic/headset, HS10SA VOX unit, HS10SB PTT switchbox, HS85 Headset with VOX, HS94 Earpiece headset, LC128 Carrying case, NCP1 Nylon chest pack, OPC254 Mini DC power cable, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



IC-T90A 6M/2M/70cm FM Handheld – Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOSFET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. Scanning management with 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing. Dim: 2.28" w x 3.44" h x 1.16" d; 8.47 oz. **Call or Check our Website**

Available Accessories

AD925MA SMA – BNC adapter, BC139 Desk rapid charger, BP216 Battery case, BP217 7.4V 1300mAh lithium-ion, CP19R Cigarette cable with filter, CS190A Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM75A Remote control mic, HS85 Headset with VOX, HS94 Earpiece headset, LC152A Carry case, MB83 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

KENWOOD

SINGLE BAND HANDHELD



TH-K2AT 2M FM HT – 5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Automatic simplex check; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock and humidity; PC programming; 4 in. high-gain antenna; Charges 3x faster than previous models with its high-capacity NiMH battery **\$154.99**

Available Accessories

BT14 Six "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, KSC24 Rapid charger, PB43N 7.2V 1100mAh NiMH battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC54 Soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

DUAL BAND HANDHELDS



TH-D7A(G) 2M/440 MHz Dual Band Dual Band Communicator – Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS™ station that reports position, speed and heading as well as calculation of distance to destination. Use for APRS™ messaging to send up to 45 characters without a PC Power: 5.5W output @ 13.6V DC; Coverage: (2M) TX: 144-148 MHz, RX: 118-174 MHz, (440 MHz) TX: 430-450 MHz, RX: 400-480 MHz. 200 memories; Station list stores data in up to 40 memory channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); PC programmable for frequency and name (PG-4W required); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A and TM-742D DTMF remote; Altitude; Time; 3-position memory; Audible emergency signal; Auto message response; Data band settings; Dim: 4.7" h x 2.3" w x 1.5" d; 12 oz.

Call or Check our Website

Available Accessories

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Belt clip, PB39 9.6V 600mAh NiMH battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4W PC software and cable, SC47B Black soft case, SC47OR Orange soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

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ON MOST ITEMS!**



Icom HTs – Fun to go!

IC-T90A

Ultra compact with
morse code synthesizer

- 6M/2M/70CM @ 5W
- Wide Band RX*
.495 - 999.99MHz
- 500 Alphanumeric Memories
- CTCSS & DTCSS Encode/
Decode with Tone Scan
- Weather Alert

IC-V8

Reversible UP/DOWN buttons
and rotary selector

- 2M @ 5.5W
- Excellent Audio
- 100 Alphanumeric Memories
- CTCSS & DTCSS Encode/
Decode with Tone Scan
- Auto Repeater Function
- Weather Alert

IC-T2H SPORT

Easy operation - uses AA alkalines
and Customizable keys

- 2M @ 6W
- 40 Alphanumeric Memories
- Alkaline Case
- CTCSS Encode/Decode
with Tone Scan
- Auto Repeater Function
- Great Price

IC-W32A

Independent band controls with
VHF/UHF exchange function

- 2M/70CM @ 5W
- 200 Alphanumeric Memories
- V/V, U/U, V/U Operation
- True Simultaneous Receive
- DTMF Auto Dialer
with Memory
- Auto Repeater Function

IC-T7H

Powerful output and
superior receive audio

- 2M/70CM @ 6W
- RX 118-174 MHz
& 400-470MHz
- 70 Alphanumeric Memories
- CTCSS Encode/Decode
with Tone Scan
- Auto Repeater Function

IC-V82

Traditional 2M operation combined
with optional D-STAR format digital

- 2M @ 7W
- Optional D-STAR format
digital unit for voice and data
communication! Features include
Callsign Calling, Up to 20 character
text message, Position Exchange*
- Also available in a 70CM version
as the IC-U82



All Icom handhelds are PC programmable. Ask AES for details.

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TH-G71A Dual Band FM HT

Its ergonomic design, illuminated and back lit display all combine to make operation a breeze. The easy to use menu system gives full control over all operating settings. Output: 6W (VHF), 5.5W (UHF) @ 13.8V DC. Coverage: (2M) 144-148 TX/RX, 118-174 MHz extended RX including the AM Aircraft band, (440 MHz) 430-450 MHz TX and 400-470 MHz RX. 200 multi-function memory channels; Memory name function; Multiple scanning modes; CTCSS tone scan; 10 channel DTMF memory; DTMF remote control; Function key lock; Auto battery saver circuit; Time-out timer; Auto power-off; PC ready; High performance antenna; MIL-STD 810E rating. Dim: 2.3" w x 4.4" h x 1.3" d; 11.6 oz.



Call or Check our Website

Available Accessories

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Belt clip, PB39 9.6V 600mAh SW battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC45 Soft case for G71A with PB38/39, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

TRIBAND HANDHELD

TH-F6A FM Triband HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW modes; Ferrite bar antenna for receiving AM broadcast; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; Multiple scanning functions; SW output with 7.4V 1550 mAh lithium-ion battery; Extended operation; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry; Battery recharges while unit operates from a DC supply; CTCSS encode/decode/DCS; Large 8-character alphanumeric display; Wireless remote control; Battery indicator; Internal VOX; MCP programming software via web (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Dim: 3.438" h x 2.3" w x 1.2" d; 8.8 oz (with battery) **\$329.99**

Available Accessories

BT13 AA battery case, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, PB42L 7.4V 1550mAh Li-ion battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag



SINGLE BAND HT

VX-150 2M Ultra-Rugged FM HT - Packed with leading edge features. Designed to perform under the most difficult conditions. Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; SW output with standard battery; Three power output levels; Wide/Narrow deviation selection; Keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; Alpha-numeric recall; Memory bank and preferential memory scanning; VFO search; illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ function; 1750 Hz tone calling; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E. Dim: 4.2" h x 2.3" w x 1.1" d; 11.5 oz. **Call or Check our Website**

Available Accessories

ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 8 "AA" cell battery case, FNBV57 7.2V 1100mAh battery, FNB64 7.2V 700mAh battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC72B Extra wall charger, VAC400B One-hour rapid charger, VC25 VOX headset

DUAL BAND HANDHELDS

FT-60R 144/430 MHz FM Dualband Handheld - Wide receive frequency coverage, providing versatile amateur communications and unmatched monitoring. Augmenting the transceiver on 144/430 MHz, there is receive coverage of VHF/UHF TV, VHF AM aircraft, and a wide range of commercial and the public safety frequencies: 108-137, 137-520 and 700-999 MHz (blocked). Emergency NOAA weather access and alert with alert scan. Take it anywhere - hiking, skiing, or walking around town. Automatic ID (EAD) feature, for search-and-rescue operations. Power: 5/2/0.5W; 1000+ alphanumeric memories in 10 banks; CTCSS/DCS encode/decode, with split tone and DCS; 9 DTMF auto-dialer memories; Two front panel programmable keys; WIRESS™ access key; Programmable level RF squelch; Mono-band and memory-only modes; Transmit time-out timer and auto power-off; Automatic repeater shift; Auto-Range Transponder System (ARTS™) "beeps" when moving out of range; NiMH long-life battery and overnight charger. Rugged die-cast case, water-resistant; Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz. **\$199.99**



Available Accessories

ADMS1J Windows software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker/mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC370 Rapid charger, VC25 VOX headset



VX-2R Ultra-compact 144/430 MHz FM Hand-held Transceiver - Slightly smaller than the original 1R, the 2R is housed in a rugged, aluminum die-cast case. Powered by a slim-line 1 amp-hour Li-ion battery pack, yielding 1.5W output on 2M, 1W on 70cm. With external DC power applied (optional), power increases to 3/2W (2M/70cm). The 2R includes wide receiver coverage from 500 kHz to 999 MHz (cellular blocked) in AM and FM modes. Over 1300 memories, special banks for shortwave broadcast, marine band, and NOAA weather ("Severe Weather Alert" included); CTCSS/DCS with "split tone" capability; 1750 Hz tone (European repeater); WIRESS™ internet key; DTMF auto-dialer. Dual-channel; Priority operation; RF squelch; Channel counter searches for frequency of strong nearby station; Automatic Repeater Shift; ARTS™; Busy channel lock-out; DC voltmeter; Wide/Narrow deviation; Outstanding audio; VOX (optional); Cloning, for quick transfer of programming data; Dim: 1.89" w x 3.19" h x 0.91" d; 4.7 oz. **Call or Check our Website**

Available Accessories

ADMS1H Programming software, CN3 BNC-SMA adapter, CSC90 Soft case, CT27 Cloning cable, CT44 2-pin speaker mic adapter, EDC21 DC adapter, FNB82LI 3.7V 1000mAh lithium-ion battery, MH34B4B Speaker mic, MH37A4B Earpiece and microphone, VC25 VOX headset

TRIBAND HANDHELDS

VX-5R Tri-Band HT - The miniature FM transceiver with extensive frequency coverage of 2M, 6M, 440 MHz, plus AM/FM broadcast, HF short-wave up to 16 MHz and the VHF AM aircraft band. Super-thin profile and durable lightweight design. Coverage: 50-54, 144-148 and 430-450 MHz TX/RX, 0.5-15.995, 48-728.990 and 800-998.990 MHz wideband RX (cell blocked). Power: 5W (4.5W 430 MHz) with standard lithium-ion battery. 220 memories plus home channels; 10 auto-scan weather channels; CTCSS encode/decode/DCS; Back-lit keypad; ARTS™; 8-character, alphanumeric; Time-out timer; Dual watch; Dot matrix LCD; Smart search spectrum analyzer; Temperature display; Barometric pressure sensor option; Automatic power-off; PC programmable; 16-digit, 9-memory DTMF autodialer; Busy channel lock out; Aluminum die-cast case; MIL-STD 810. Dim: 3.4" h x 2.3" w x 1.1" d; 8.9 oz (Black Case).



VX-5RS Same VX-5R above but with a silver case

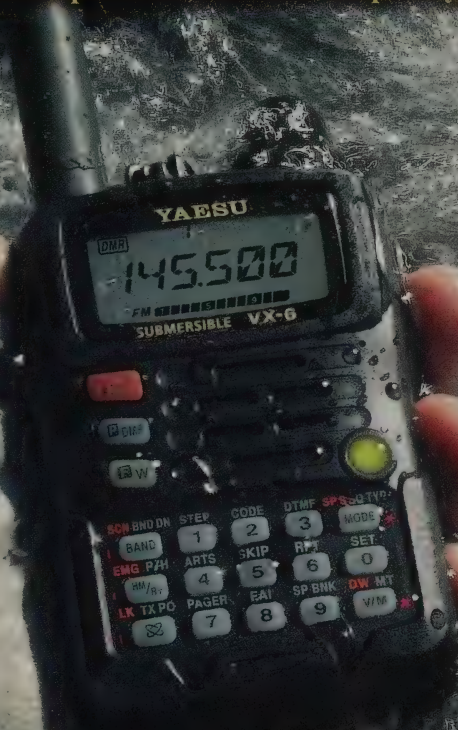
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Available Accessories

ADMS1E Windows software, CD15A Charger stand for NC72B, CN3 BNC-SMA adapter, CSC73 Soft case, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC72B Extra wall charger, Q3000166 Replacement Duck, SU1 Altitude/barometric pressure sensor, VC25 VOX headset

Conquer the Elements!

Ideal for the most demanding field use, the exciting new YAESU VX-6R features wide receiver frequency coverage, JIS7 submersibility weatherproofing, the Emergency Automatic Identification (EAI) system for rescue operations, and ultra-simple keypad access to the features you need now!



Actual Size

- Compact size, utilizing a rugged case with weatherproofing O-rings, rated to JIS7 submersion specifications (immersion to 3 feet for up to 30 minutes).
- High-capacity (1400 mAh) FNB-80LI Lithium-Ion Battery Pack provides a typical 5-Watt operating time of 7 hours.
- *144 MHz, duty cycle of 6 minutes TX, 6 minutes RX, 48 minutes standby
- One-touch Direct Memory Recall (DMR) access to most important memory channels (similar to channel access on a car stereo).
- Large concentric control knobs for easy adjustments while wearing gloves.
- Wide frequency coverage: 504 kHz – 998.99 MHz (cellular blocked and non-restorable).
- 900 Memory Channels with alpha-numeric labels assignable into 24 Memory Banks.
- Internal temperature sensor built in, with barometric pressure display via optional SU-1 module.
- External DC operation capability while charging battery pack.*

* Transmission not possible when just using charger connections.

144/430 MHz* Dual-Band Submersible FM Transceiver **VX-6R**

*222 MHz band @ 1.5 W included

Submersible and Rugged

Magnesium rugged, feature packed top of the line



VX-7R/RB

Field-ready, compact, and easy to use



VX-6R

Ultra-Rugged

Rugged Dual-Band HT with EAI



FT-60R

Ultra Compact

Tiny yet tough, and feature-packed



VX-2R

EAI : Emergency Automatic ID

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<http://www.vxstdusa.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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TRI-BAND HT

VX-7R Ultra-Rugged,
Submersible Magnesium FM



Tri-band HT With a full SW output on 50, 144 and 430 MHz FM, the 7R also offers bonus coverage on 222 MHz FM band at 300mW. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and it sports rubber bumpers, all for JIS-7 specification protection. 500 kHz to 999 MHz continuous receive (cellular blocked); Four simultaneous dual receive modes; Over 900 memories including 40 memory scan band limit, 10 home channels and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponding System; Easy-to-read display with graphical and pictorial tools – user-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; Internet key for instant access to WIRES™ internet-linking; "Quick-Draw" swivel-mount belt clip; 7.4V 130mAh lithium-ion battery; Choose black or silver. Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.

VX-7RB Same as VX-7R but with a black case

Call or Check our Website

Available Accessories

ADMS1G Programming software, CD15A Rapid charger for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Microphone adapter, EDC5B DC adapter/filter, EDC6 DC adapter/plug/wire only, FBA23 2 "AA" cell battery case, FNB80L1 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, NC72B Wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric pressure sensor, VC27 Earpiece/mic



HF RADIOS



DX-70TH Compact HF Transceiver – Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive in SSB, CW, AM, FM modes. 100W (AM 40W); Detachable face; 100 multi-function memories; Two VFOs; Easy split operation; Quick offset; Multi-function control; Narrow filter; Noise blanker; Speech processor; CTCSS for 10M & 6M repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RTT; TXIT; Selectable AGC; Dial lock; Automatic antenna tuner interface; MARS/CAP cap. Dim: 2.3" h x 7" w x 9" d; 8.3 lbs. **\$749.99**

Available Accessories

DM330MVT 30 amp switching power supply with meter, EBC8 Front control head bracket, EBC9 Extra mobile bracket, EDS4 5' remote mount accessory cable kit, EDS5 5' mic extension cable, EDS6 15' remote cable, EDX2 160-10M auto wire tuner, EMS14 Desk mic, PC25 DC cable



DX-77T HF Transceiver – Covers 160-10M with 500 kHz-30 MHz receive in SSB/CW/AM/FM modes. 100W (AM 40W); High/low power settings; 100 multi-function memories; Two VFOs; Direct digital synthesis; Easy split operation mode; Multi-function control; CW narrow filters; Noise blanker; 6-50 WPM electric keyer; Full, semi or auto break-in CW; All mode squelch; Quick offset; Two scan modes; RTT; Selectable AGC; RF gain control (RX); Dial lock; Auto antenna tuner interface; MARS/CAP capability. Dim: 3.6" h x 9.5" w x 9" d; 8.3 lbs. **\$699.99**

Available Accessories

DM330MVT 30 amp switching power supply with meter, EDS5 5' mic extension cable, EDX2 160-10M auto wire tuner, EMS14 Desk top microphone, PC25 DC cable



IC-910H VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM tribander. Covers 144-148, 430-450 and 1240-1300 MHz (with option). Output: 5-100W (2M), 5-75W (440 MHz); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch and Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5" w x 3.6" h x 9.4" d; 10 lbs. **Call or Check our Website**

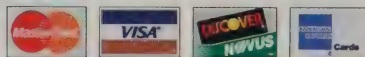
Available Accessories

AG1200 1.2 GHz mast mount preamp, AG2400 2.4 GHz mast mount down conv., AG25 2M mast mount preamp, AG35 430 mast mount preamp, CR293 High stability crystal unit, CT17 Level converter, FL132 500 Hz main receiver CW filter, FL133 500 Hz sub-band receiver CW filter, MB23 Carrying handle, MB5 Mobile mount, PS125 25A switching power supply, SM20 Stand mic for base stations, SP10 Slim-line external speaker, SP7 Small external speaker, UT102 Voice synth., UT106 DSP unit, UX910 10W 1.2 GHz module

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IC-706 MK II-G Compact HF/VHF/UHF All Mode – Base station performance in a mobile sized radio. Covers 160-10M + 6M, 2M and 70cm; with broadband 0.03-200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160-6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; Requires 13.8V DC @ 20A. Dim: 6.6" w x 2.3" h x 7.9" d; 5.5 lbs. **\$949.99**

Available Accessories

BET 706TUNECON Better RF tune control, AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, HM118TN TTP microphone, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mounting base platform, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 748-pin-13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, RMK706 Remote mounting kit, SM20 Stand mic for base station, SM6 Electret desk mic, SP10 Slim-line external speaker, SP7 Small external speaker, UT102 Voice synthesizer, W4R ANTBOSSII W4RT Interface



IC-718 HF All Band Transceiver – Advanced features with simplified operation, perfect for beginners or backup rig. Covers 160-10M with 0.03-30 MHz receive in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/R/F meter; High frequency stability; Flexible filter selection; Hand microphone included; 13.8VDC @ 20A. Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lbs. **Call or Check our Website**

Available Accessories

BET 706TUNECON Better RF tune control IC706/78, AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, FL96 2.8 kHz 455 kHz IF SSB filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable (AT180), PS125 25A switching supply, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP23 Speaker with audio filter, SP7 Small ext. spkr., UT102 Voice synthesizer, UT106 DSP unit



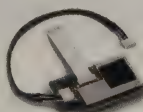
Horizon to horizon. And beyond!

Nothing beats the 910H when it comes to satellite ops. A big-screen, dual-frequency readout sets the scene while velvet smooth Doppler compensation lets you follow the action. With $.11\mu\text{V}$ sensitivity, optional DSP, and push-button normal/reverse tracking, there's never been a rig bred more specifically for LEO birds. But the sky is not the limit with the 910H. For terrestrial operation, it more than delivers everything you need. At home or in the field, its built-in all-mode extra punch eliminates the need for amplifiers. Whether you're working FM repeaters, 2 meter SSB from a mountaintop, or tracking the newest satellite, the 910H puts you in command. Visit your favorite AES location today.

2M/70CM @ 100W/75W • All Mode • Simultaneously Works Two Bands at Once • 9600 bps High Speed PACKET Port • $.11\mu\text{V}$ Sensitivity • Main & Sub Band Functions for IF Shift, Sweep, NB, RF Attenuator • Large LCD Display • Four Versatile Scanning Functions • CTCSS Encode/Decode/Tone Scan • Built-in Keyer • PC Controllable • Memory Pad • Normal/Reverse Satellite Functions • And Much More!

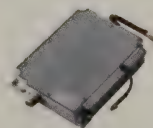
AG-2400 Downlink Receive Converter

Converts a 2400MHz RF signal to a 144MHz IF signal, allowing US mode operation. When used with optional UX-910, LS mode operation is also available.



UT-106 DSP Unit

Provides AF-DSP (Digital Signal Processing) functions, including noise reduction and automatic notch filter. Use two, one for main band & one for sub-band.



UX-910 1200MHz Band Unit

Turns the IC-910H into an all mode, tri-band transceiver (1.2GHz @ 10W). Also makes crossband and full duplex operation possible.

ICOM



IC-756PRO III HF/50 MHz All Mode Transceiver Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver function for long LCD life and reduced "burn in". Dim: 13.3" w x 4.3" h x 11.2" d; 21 lbs.... **\$2,999.99**

Available Accessories

BETIMATE Better RF accessory, AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, CR338 High stability crystal unit, CT17 Level converter, HM36 Scanning hand mic, OPC25D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP20 Speaker, SP23 Speaker with audio filter, UT-102 Voice Synthesizer



IC-703 PLUS HF QRP Transceiver - For home, shack, mobile DX'ing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but without VHF/UHF. Built-in, relay-type automatic antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options. Dim: 6.5" w x 2.7" h x 7.875" d; 4.4 lbs..... **Call or Check our Website**

Available Accessories

AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, AH703 40/20/15/10/6 20W 4.6' antenna, BC155A Battery charger/BP228, BP228 9.6V 2800mAh external NiCad, CT17 Level converter, FL222 1.9kHz 455kHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL52A 500Hz 455kHz IF CW filter, FL53A 250Hz 455kHz IF CW filter, HM118TN TTP mic, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mtg base platform, MB72 Carrying handle, OPC1229 Extra DC cord, OPC1248 IC703 to PS125 cable, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC599 746-pin-13-pin adapter, OPC742 13-pin cable, RMK706 Remote mtg kit, SM20 Stand mic for base station, SM6 Electret desk mic, SP10 Slim-line ext. spkr, SP7 Small external spkr, UT102 Voice synthesizer



IC-746PRO HF/VHF All Mode Transceiver Covers 160-10M + 6M + 2M with 0.03-60 MHz, and 108-174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmartTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A; 11.3" w x 4.7" h x 12.5" d; 19.6 lbs..... **Call or Check our Website**

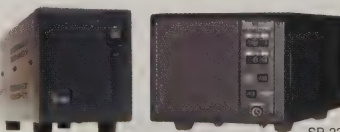
Available Accessories

BETIMATE Better RF accessory, AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, CR338 High stability crystal unit, CT17 Level converter, HM36 Scanning hand mic, OPC25D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP23 Speaker with audio filter, UT102 Voice synthesizer



Add some POWER!

IC-PW1 HF/6 Meter 1KW Linear Amplifier - A tabletop-sized unit featuring a detachable control head which allows placing the IC-PW1 almost anywhere in the shack. All solid-state, no tune-up design provides a stable, clean and low distortion 1000W output from 1.8-50 MHz at 100% duty cycle (including RTTY or SSTV). Dual CPUs handle system operation, monitoring and control with memories for fast band change and antenna selection. Auto band changing; Adjustable ALC range; Full break-in operation; Four antenna connectors; Built-in automatic antenna tuner. Dim: 13.8" w x 10.6" h x 15" d; 55 lbs..... **Call or Check our Website**



SP-23 Speaker w/Audio Filters - Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand. Dim: 5.75" w x 4.25" h x 11.2" d; 3.6 lbs..... **\$189.99**
PS-125 Base Station Power Supply Provides full 25 Amps of power for Icom radios. Dim: 4.4" w x 3.7" h x 11.3" d inches; 6.6 lbs..... **\$299.99**



IC-7800 HF/50 MHz Transceiver - The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point 1 HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching and two roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 MHz amateur transmit, 0.03 to 60 MHz general receive; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, external speaker connectors for each; Dual watch; RIT and ATX; Separate 50MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85-265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Microphone equalizer (adjustable TX bandwidth); Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; -50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug; 16.6" w x 5.9" h x 17.1" d; 55 lbs..... **\$10599.99**

Available Accessories

CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic for base station, SP20 Speaker with audio filter, SP23 Speaker with audio filter

SM-20 Electret Microphone

For Base Station operation, powered from the ICOM transceivers. Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin microphone plug. Compatible with the IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821, 910H and 920. Use with the IC-706 series with the addition of the optional OPC-589 adapter cable..... **\$199.99**



TRADE UP TO ICOM
CALL NOW FOR A QUOTE!



Get your feet wet in HF!

Want to get your feet wet in HF, without getting soaked? The '718 is the rig for you! Straight forward operation, user friendly features, and low, low price make this one rig you can grow with. Jump in at your favorite AES location.



HERE'S WHAT QST HAS TO SAY:

"The Icom IC-718 offers a nice collection of the more desirable features that are typically absent from transceivers in its price class."

"I found that the IC-718 was very easy to operate with a minimum of "manual" intervention."

"Operating RTTY or PSK31 with the IC-718 was a breeze."

"The IC-718 provides 100W on SSB, RTTY, and CW and 40W on AM. The RF power output is continuously variable between approximately 5 and 100W (from 2 to 40W on AM)."

QST, Product Review, July 2000

160-10M Coverage* • 100W Output Power (40W on AM) • RX Coverage 0.03 - 30MHz • 101 Memories • Multiple Scanning Functions • Front Mounted Speaker • IF Shift • Mic Compressor • RF Gain Control • Noise Blanker • RF Attenuator & PreAmp • Auto Notch Filter • Ample CW features including Electronic Keyer • VOX • Digital S/R Meter • Flexible Filter Selection • Optional DSP • Optional Voice Synthesizer • And much more!



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KENWOOD

HF RADIOS



TS-480HX HF/6M All-Mode Transceiver – Covers amateur bands 1.8 to 50 MHz, including 60M with continuous receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two PS-53s or equivalent), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Twin cooling fans; Full range of CW features; Auto tune; Memory name function; Multiple scan functions; Keypad direct frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Crossband repeater (with TM-D700A); Auto power off and time-out timer; Back lit keys; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A); PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d (main unit), 7.06" w x 2.94" h x 1.44" d (panel); 7.05 lbs. (main); 1.1 lbs. (panel)

TS-480SAT 100W version of the HX. Includes built-in automatic antenna tuner.

Call or Check our Website

Available Accessories

HS6 Lightweight headphones, MB480 Carry bracket with handle, MC435 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MJ88 Modular/8-pin adapter, PG20 22" DC cable, PG42 13" panel extension kit, PS53 Heavy-duty power supply, S03 TCXO unit, SP23 Speaker, SP50B External mobile speaker, VG51 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8kHz SSB filter



TS-50S HF Transceiver – Covers 160–10M with 500 kHz to 30 MHz receive. 100W output SSB/CW and FM (AM 25W); 100 memory channels; Multiple scan functions; Powerful menu system; Dual VFOs; Comprehensive interference reduction; Full & semi break-in; CW reverse mode; All-mode squelch; Switchable AGC; IF shift; 20 dB attenuator; Noise blanker; Multi-function hand mic. Dim: 7" w x 2.3" h x 9.1" d; 6.4 lbs. **Call or Check our Website**

Available Accessories

AT50 HF external auto tuner, KPS15 23A switching power supply w/fan, MC47 multifunction 8-pin hand mic, MC60A 8-pin amp desk mic, PG2Y 13" DC cable, PG2Z Heavy-duty 6.5" DC cable, PG4M 18" extension cable for the AT50, PS53 Heavy-duty power supply, S02 TCXO unit, SP23 External speaker, SP50B External mobile speaker, TC50 Travel case, YK107C 500 Hz CW filter



TS-570D(G) HF Transceiver – Covers 160–10M with 500 kHz to 30 MHz receive. Variable output: 5–100W SSB/CW/FM and FSK (AM 25W); 100 memories with multiple functions; Large amber-colored backlit LCD display; 10-key direct entry; 46 easy to use menu functions; Multiple scanning functions; 16-bit AF-stage DSP VOX; XIT/RT; IF shift; Noise blanker; All mode squelch; TX audio shaping; Built-in electronic keyer; Full and semi break-in CW; CW message memory; CW auto tune; 38 tone CTCSS encoder and 1750 Hz tone; TX audio shaping; Packet and FSK; PC control option; Two antenna connectors; Packet port; Built-in automatic antenna tuner; Requires 13.8V DC @ 20.5A. Dim: 10.6" w x 3.7" h x 10.6" d; 15 lbs.

TS-570S(G) HF-6M Transceiver Same as the TS-570D(G), but covers 160–10M plus 6M. 50–54 MHz general coverage receiver.

Call or Check our Website

Available Accessories

DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC435 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13" DC cable, PG2Z 6.5" heavy-duty DC cable, PS53 Heavy-duty power supply, S02 TCXO unit, SP23 Speaker, SP50B External mobile speaker, VS3 Voice synthesizer, YK88CN1 270 Hz CW filter, YK88C1 500 Hz CW filter, YK88SN1 1.8 kHz SSB filter



TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel, (2) the high-tech looking "silver box" version (TS-B2000), or (3) computer controlled with software. 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz. Dual receive; High performance true IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS encode/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF receive.

TS-B2000 HF/VHF/UHF All Mode Transceiver Same as the TS-2000 with high-tech "silver box" look. Includes PC control software.

TS-2000X HF/VHF/UHF All Mode PC Controlled Transceiver – The TS-2000 w/1.2 GHz.

Call or Check our Website

Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC435 8-pin hand mic, MC57DM Lit TTP mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13" DC cable, PG2Z DC cable, PS53 Heavy-duty supply, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer

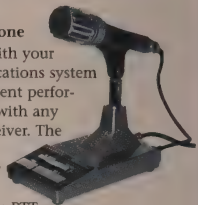
KENWOOD

POPULAR ACCESSORIES

MC-60A

Desktop Microphone

Designed for use with your amateur communications system and provides excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier, and 6 ft. coiled cord with 8-pin connector. Uses two "AA" batteries.. **\$149.99**



HS-5

Deluxe Headphones

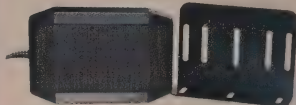
Specifically designed for use with communication systems. Provides a natural sound and eliminates pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug installed. Impedance: 8Ω; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; Weight: approximately 13 oz **\$79.99**



HS-6

Lightweight Headphones

Response: 100-10,000 Hz Impedance: 12.5 ohms; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. **\$59.99**



SP-50B Communications Speaker – Compact, just right for mobile operation. High quality 2.5 in. speaker; Maximum input: 2.5W; Frequency Response: 300-4000 Hz. Includes a versatile mounting bracket and hardware. Dim: 4.8" w x 3.2" h x 1.4" d; 10 oz. **\$55.99**



LF-30A Low-Pass Filter – Reduce the possibility of TVI and BCI. Suppresses harmonics radiated in RF signals from 160–10 meter transmitters. Power rating: 1000W SSB; 30 MHz cutoff; >90dB attenuation from 90–300 MHz; Insertion loss: <0.5dB @ 30 MHz; Impedance: 50 ohms. Dim: 9.6" w x 2" h x 1.5" d; 1.2 lbs **\$64.99**

ORP SINGLE BAND CW TRANSCEIVERS



Easy operation, sets up in seconds! Power: 5W CW; Great sensitivity – hot superhet receiver with super-quiet FET post amp stage in the IF filter; Excellent selectivity – tight CW bandwidth crystal ladder filter fights unwanted QRM and noise; Smooth and stable VFO (wide-spaced reduction drive VFO capacitor); True RIT; Recovery AGC; Built-in 3 in. speaker; Low power drain: 50mA on receive and 1.2A peak on transmit; Semi-QSK operation, just set the adjustable hold T/R switching to suit your normal sending speed or set for full QSK during contests, etc. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

Four different models:

- 9015** SW, 15M (21.000–21.200 MHz)..... **\$169.99**
- 9020** SW, 20M (14.000–14.075 MHz)..... **\$169.99**
- 9030** SW, 30M (10.000–10.150 MHz)..... **\$169.99**
- 9040** SW, 40M (7.000–7.150 MHz)..... **\$169.99**

Available Accessories:

1772 Portable 20M dipole, 1774 Portable 40M dipole, 27 Handle for CW station, 4110 portable AC power supply, 4114 Rechargeable power pack, 412 Plug-in Curtis supply, 726 Plug-in audio filter, 971 200W portable antenna tuner/meter

LOW POWER, SINGLE BAND SSB TRANSCEIVERS



Easy operation, just turn on and tune in. Power: 20W PEP (Less on VHF models); Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through noise, fading, and QRM; Handheld dynamic microphone that complements speech processing; Low current drain, only 3 amps from 12V supply or battery; Low noise preamp and active double balanced mixer front end; Sharp 2.3 kHz SSB crystal ladder filter reduces passband noise, fights QRM, and improves intelligibility; TVI protection with a built-in lowpass filter; Real S-meter; Reduction drive analog VFO allows scanning the band for signals quickly, then zeroing in smoothly; Amplifier key jack. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs. Four different models:

- 9410X** 10M SSB (28.3–28.6 MHz)..... **\$239.99**
- 9420X** 20M SSB (14.150–14.350 MHz)..... **\$229.99**
- 9440X** 40M SSB (7.150–7.3 MHz)..... **\$229.99**
- 9475X** 75M SSB (3.75–4.00 MHz)..... **\$229.99**

Available Accessories:

416 CW adapter for 9410X, 1770A 10M dipole for 9410X, 1772 Portable 20M dipole, 1774 Portable 40M dipole, 4110 Portable AC power supply, 4114 Rechargeable power pack, 415B CW adapter (9420X & 9440X only), 971 200W HF tuner

**WE HAVE OUR OWN
SERVICE DEPARTMENT!**

SGC HF PORTABLE SSB TRANSCEIVER



05-04 SGC-2020 ADSP® Transceiver – For base, backpack or business trips – the ultimate portable transceiver. Operate SSB or CW from wherever you are. The SG-2020 draws only 400mA receive and less than 3 Amps transmit at 20 Watts. Output power adjustable from 0-20W PEP. VOGAD base-band RF speech processing and RF clipping provide plenty of talk-power. No confusing menus and two-step operation: select your frequency and transmit. Fully integrated ADSP® for superior sound clarity, the SG-2020 is pure, simple HF at its best. Covers 1.8–29.7 MHz; Power: 0-20W PEP drawing <0.8mA receive and <3A transmitting current; Built-in iambic-B keyer 5-50 WPM; ADSP2 provides 13dB and 26dB noise reduction. Dim: 7.3" d x 6.2" w x 2.8" h; 4.4 lbs..... **\$795.99**

Available Accessories:

See SGC in the Price Guide

YAesu HF RADIOS



FT-817ND HF/VHF/UHF Backpack Transceiver Self-contained and low power for portability. Covers 160–10M, 60M, 50 MHz, 144 MHz, 430–450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz – 56 MHz, 76–154 MHz, 420–470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM. Power programmable via menu. Dual VFOs; 200 alphanumeric memories (home channels and band-limit); SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RIT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs..... **Call/Web**

Available Accessories:

W4R OTT897 W4RT one-touch tune, ADMS4A Programming software, ATAS25 40/20/15/10/6/2/430 MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 Cat interface cable, EDC6 DC cord, FNB72 9.6V 1000mAh NiCad, FNB85 9.6V 1400mAh NiMH, MH36EJ TTP mic, MLI500 Mobile speaker, NC72B Wall charger, TCX09 TCXO unit, YA007FG FG whip with mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter



FT-840 Compact High Performance HF Transceiver – Blending high performance digital synthesis techniques, convenience and affordability from previously successful radios, the FT-840 adds a choice of two optional remote automatic antenna tuners and a wealth of convenient functions. Covers 160–10M with 50 kHz – 30 MHz general coverage receive. 100W output (25W AM); 100 memory channels; Direct Digital Synthesis; Low noise FET front end; Two direct digital synthesizers (DDSS) and magnetic rotary encoder for smooth tuning; Twin band-stacking VFOs; IF shift; Reverse CW; FM repeater with automatic 10 meter FM repeater offset; Selectable CTCSS; Requires 13.8V DC @ 20A. Dim: 9.2" w x 3.6" h x 9.5" d; 9.9 lbs..... **Call/Web**

Available Accessories:

EDC20 DC cord, FC10 External coax fed auto tuner, FC800 Extra long wire auto tuner, HF232C RS-232 interface, FM747 FM unit, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MLI500 Mobile speaker, MMB20 Mobile mount, SP6 External speaker, TCX04 TCXO unit, T9018320 DC cord, YA007FG FG whip with mount, YF112A 6 kHz AM filter, YF112C 500 Hz CW filter, YH775TA Stereo headphone



FT-847 HF/VHF/UHF All-Mode – Operate HF, 50, 144 and 430 MHz with full satellite capability. Covers 160–6M, 2M, 70cm and 5.1675 MHz (Alaska emergency channel) with 100 kHz – 30 MHz, 36–76, 108–74 and 420–512 MHz receive. Power: 100W on HF/6M (25W AM); 50W (12.5W AM) on 2M/430 MHz; High resolution 0.1 Hz tuning steps; Shuttle-Jog™ tuning ring; Direct frequency keypad entry; Low noise VHF/UHF preamps; Advanced DSP enhances signal-to-noise ratio via sophisticated bandpass, noise reduction and auto notch filters; Cross band full duplex; Normal/reverse tracking; Dedicated satellite memories; 1200/9600bps packet ready; CW side-tone/pitch control; Built-in CTCSS/DCS; 4 antenna jacks (rear panel); Requires 13.8V DC @ 22A. Dim: 10.2" w x 3.4" h x 10.6" d; 14.4 lbs..... **Call/Web**

Available Accessories:

W4R ANTENNABOSS W4RT interface, ATAS120 HF/6/2/430 antenna, ATBK100 ATAS100 base kit, CT39 Packet cable, CT61 AMP interface cable, EDC20 DC cord, FC20 Automatic antenna tuner, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, FV51A Voice synthesizer, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH36D8 DTMF mobile microphone, MMB66 Mobile mounting bracket, SP8 External speaker with filters, T9018320 DC cord, YA007FG FG whip w/mount, YF115C 500 Hz CW/Collins Mechanical filter, YF115S02 2.5 kHz SSB/Collins Mechanical filter, YH775TA Stereo headphone

**TRADE UP TO YAESU
CALL NOW FOR A QUOTE!**



FT-857D Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1–56, 76–108, 118–164 and 430–470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control microphone. Dim: 6.1" w x 2.0" h x 9.2" d; 4.6 lbs..... **Call/Web**

Available Accessories:

BET YAEUTENCONT Better RE, W4R ANTENNABOSS W4RT interface, W4R OTT897 W4RT one-touch tune, ADM54B Programming Software, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS100 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FPI023 23A switching power supply, FPI300A 25A power supply with meters, MD100A8X Deluxe high fidelity desk microphone, MH36E8J TTP microphone, MHS9A8J Remote control TTP microphone, MLS100 Mobile speaker, SP6 External speaker, TCX09 TCXO unit (0.5ppm), T9023225 Extra DC cord, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter, YH775TA Stereo headphones, YSK857 Separation kit



FT-897D HF/VHF/UHF Multi-Mode Portable/Base – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis. Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs..... **Call/Web**

Available Accessories:

Use the same accessories as the FT-857D above, but excluding: CT58, FPI023, FPI300A, TCX09 & YSK857.

Additional accessories for FT-897D: CD24 4-hr charge adapter; FN878, FN878 4.5AH NiMH battery, FPI30 Internal PS, MMB80 Mobile bracket, PA26B 110VAC charger; CD-24

YAESU HF RADIOS



FT-1000MP MK V 200W HF All Mode Transceiver – A blend of analog and digital technology, based on the concept of rigorous filtering in all stages of the receiver and transceiver. Interlocked Digital Band-width Tracking, matching the receiver passbands of the 8.2 MHz IF, 455 kHz IF and DSP systems; Variable RF Front-end Filter, providing a high-Q "Preselector" system; A 200W MOSFET final amplifier, conservatively rated with revolutionary heat sink design; 75W optional Class-A PA operation, providing SSB signal purity; Integrated Shuttlelog™ control, combines IBDT and VRF access buttons with the Shuttle-Jog™ frequency control; High-speed automatic antenna tuner; Separate switching power supply, provides 30V for MOSFET PA transistors, and 13.8V for other circuitry. Dim: 16.4" w x 5.4" h x 13.9" d; 31 lbs. (xcvr), 4.2" w x 5.4" h x 13.6" d; 13 lbs. (power supply)..... **Call/Web**

Available Accessories:

DVS2 Voice recording module, FH1 Remote control keypad, FTV1000 200W 6M transverter, LL7 Phone patch unit for SP8, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH31B8 Extra hand mic, SP8 External speaker with filters, TCX06 Deluxe TCXO unit, YA007FG FG whip with mount, YF110CN 250Hz CW filter/XFE, YF110SN 2kHz SSB filter/XFD, YF114CN 250Hz CW second IF main receive, YF114SN 2kHz SSB second IF main receive, YF115C 500 Hz CW/Collins Mechanical filter, YH775TA Stereo headphone



MK V FIELD Leading-Edge Technology, 100W Self-Contained Design Covers 160-10M with 100 kHz to 30 MHz receive and all modes. Power adjustable up to 100W (25W AM) and selectable clean Class-A 25W SSB output. Self-contained 117/200VAC power supply, 13.8VDC optional; Built-in TCXO; Dual receive with independent AGC systems; Integrated digital bandwidth tracking; Enhanced DSP; Digital SSB mix equalizer and RF speech processor; Selectable digital modulation and demodulation; Digital auto-notch filter; Variable RF front-end filter; Selectable SSB pattern-contour filters; Three RF preamp modes +IPO (Direct Mixer Feed); IF filter chain includes 10-pole Collins mechanical filter; Built-in antenna tuner; Electronic memory keyer; Outstanding CW features; Ergonomic, multi-function shuttle jog dial. Dim: 16" w x 5.3" h x 13.7" d; 33 lbs..... **Call/Web**

Available Accessories:

DVS2 Voice recording module, FH1 Remote control keypad, FPI29 Power supply for FTV1000, FTV1000 200W 6M transverter, LL7 Phone patch unit for SP8, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH31B8 Extra hand mic, SP8 External speaker with filters, TCX06 Deluxe TCXO unit, YA007FG FG whip with mount, YF110CN 250 Hz CW filter/XFE, YF110SN 2 kHz SSB filter/XFD, YF114CN 250 Hz CW second IF main receive, YF114SN 2 kHz SSB second IF main receive, YF115C 500 Hz CW/Collins Mechanical filter, YH775TA Stereo headphone

YAESU POPULAR ACCESSORIES

QUADRA KW!



QUADRA SYSTEM HF/50 MHz Solid-State Amplifier (VL-1000/VP-1000) – Covers 160–15M + 6M, producing 1000W (6M, 500W) output with 100W of drive power. 4 twin MOSFET final PA modules; Two RF input and four RF output connectors; Built-in high-speed automatic antenna tuner; Dot matrix multi-function LCD; Panoramic SWR monitor shows before and after tuning SWR data; High SWR protection; Fully automatic band switching, no tune-up with the FT-1000, FT-1000MP, FT-1000MP MK V, MK V FIELD, and FT-920. Operation on 117VAC provides 500W output, 220V gives 1000W output. Matching 48 Volt/48Amp switching power supply included. Dim: (RF unit) 16.25" w x 5.9" h x 17.7" d; 43.6 lbs Dim: (Power supply) 16.25" w x 5.9" h x 14.9" d; 32.2 lbs..... **\$3999.99**

MD-200A8X High Fidelity Desktop Microphone

For use with the MARK V. Employs a studio-quality, 30-17,000 Hz dynamic element optimized for high fidelity SSB. The exclusive Variable Side Pressure Control allows adjustment of overall frequency response for a natural, high-fidelity sound for everyday rag chewing, or to high-articulation with a moderate peak above 1500 Hz for DX or contesting. Aluminum die-cast base with locking and



momentary PTT switches; Up/down scanning switches. The top housing can accommodate an additional DX or contest microphone element. Also works with FT-847, 857, 897, 920, 1000MP, FIELD, also the 1000/1000D without "TX" LED. Includes dual-connector cable with regular and modular microphone plugs. Dim: 4.7" w x 12.6" h x 4.9" d; 2.2 lbs..... **\$399.99**

SP-8 External Speaker – A high fidelity speaker with frequency tailoring for amateur and general communications use. Independently adjustable low-cut and high-cut filters offer twelve possible audio response configurations. Front panel A-B switch; Mute/Manual/SSB/CW mode switch; Two separate rear audio inputs and line out jack; Two front panel headphone jacks for 1/4 in. and 3.5mm plugs. Dim: 7.7" w x 6" h x 11.7" d; 6 lbs..... **\$174.99**





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**Large, precision analog meters, 6.5" TFT Display,
the world's first 400 MHz High Resolution DDS,
3 kHz First IF Roofing Filter,
and High-Q "μ" RF Tuning!**

The FT DX 9000D brings you the highest total system performance available today. Its ultra-quiet 400 MHz High Resolution Direct Digital Synthesizer teams up with the high-level receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order Intercept Point in excess of +40 dBm. The fully-loaded FT DX 9000D includes three permeability-tuned, motor-driven "μ" RF Tuning modules with Q>300, for ultra-sharp RF selectivity found nowhere else in the Amateur Radio industry!

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FT DX 9000D

200 W Transceiver

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FT DX 9000MP
400 Watt Version
(Future Production Item)



FT DX 9000 Contest
200 Watt Configurable Version

Modifications from 200W to 400W, or 400W to 200W, are not possible. Display image simulated; actual appearance may vary. Photo depicts after-market lamp, keyboard and keyer paddle, not included in FT dx 9000D purchase price.

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Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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ADI SINGLE BAND MOBILE RADIO



AR-147+ 2M Mobile – Includes features expected in a modern mobile including AM Air Band receive, direct frequency entry, lots of memory channels and more. Both CTCSS and DCS to ensure compatibility with all repeater systems. Transmit: 144–148 MHz; Receive: 118–171 MHz; Three power settings (60, 10, 5W); MARS/ CAP capable; 80 multi-function memories plus call; Auto repeater offset; 9 DTMF autodialer memories + redialer; Programmable band, memory scan and frequency/channel display; DTMF paging; Dual watch; PC programmable. Dim: 1.5" h x 5.5" d x 6.25" w; 2.7lbs..... **\$149.99**

Available Accessories:

MTGBKT Mobile bracket, PROG47 PC programming software and cable, PWRCORD DC cable



SINGLE BAND MOBILES



DR-135TMKII 2M Mobile Transceiver – Covers 144–148 MHz transmit with 118–135.995 MHz (AM aircraft) & 136–173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5 ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs..... **\$169.99**

DR-135TPMKII Same as 135TMKII with addition of the TNC for 1200/9600bps packet and APRS operation..... **\$269.99**

DR-235T Covers 222–224.995 MHz TX and 216–279.995 MHz RX; 25W/10/5W out..... **\$249.99**

DR-435TMKII Covers 430–450 MHz TX and 430–440 MHz RX; 35W/10/5W output..... **\$269.99**

Available Accessories:

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ40U Digital board (235T only), EJ41U 1200/9600 TNC (T and TMKII's only), EJ47U Digital board (MKII's only), ERW4 PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software



DR-M06TH 6M FM Transceiver – Covers 50–54 MHz FM. Selectable 20/1W output; 100 memories + CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand microphone; 13.8VDC @ 3A. Dim: 5.5" w x 1.5" h x 4.5" d; 1.6 lbs **\$259.99**

Available Accessories:

HK130 Hardware kit, MB130 Mnt. bracket, PC15B DC cable

DUAL BAND MOBILES



DR-605TQ 2M/70cm Dualbander – Covers 144–147.995 and 430–449.995 MHz transmit with 136–173.995 MHz and 420–470 MHz receive; Power: 50/10/5W (VHF), 35/10/5W (UHF); 50 memories, one CALL per band; Cross band repeat, Full duplex; Dual VHF/UHF only displays; Multi-scan functions; CTCSS encode, 3 European tone bursts; Twin volume controls; Packet compatible; Cable cloning; Internal duplex; 13.8VDC @ 11.5A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.4lbs..... **\$339.99**

Available Accessories:

EDS8 EMS14-DR605 adapter, EMS14 Desktop mic, EMS54 Extra mic, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable



DR-620T 2M/70cm Twin Band Mobile – Covers 144–147.995 and 430–449.995 MHz transmit with 87.5–108, 108–173.995, 335–480 MHz receive. Includes AM Aircraft band and MARS modifiable. VHF/UHF operation includes V/U, V/V and U/U combinations (not capable of full-duplex V/U, V/V, U/U operation). Power: 50/10/5W VHF, 35/10/5W UHF; 200 memories; Built-in duplex; Large, alphanumeric, selectable color display; Removable control head for remote mounting or inverted operation; Optional 1200/9600 bps packet; Direct GPS input for APRS mobile tracking (optional); Digital voice (optional); Illuminated DTMF microphone allows direct VFO frequency entry and remote control; CTCSS/DCS encode/decode (4 tone bursts); Programmable VFO and memory scan including timed, busy and skip modes; Time-out timer; Busy-channel lock out; Temperature-compensated crystal oscillator; Ignition key power On/Off feature; Power supply voltage display; Theft alarm. Dim: 5.5" w x 1.6" h x 7.3" d; 2.2 lbs..... **\$339.99**

Available Accessories:

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software

ICOM SINGLE BAND MOBILE



IC-2100H-25N Rugged 2M Transceiver – Icom's best performer against IMD and straight-forward operation. Covers 144–148 MHz transmit with 136–174 MHz receive. Power: 50/10/5W; One-touch button operation; 113 memories; Dual, alphanumeric, selectable Green/Amber backlit display; Backlit TTP microphone with two programmable keys; Adjustable attenuator; CTCSS tone encode/decode (50 tones); Tone scan; Auto repeater with busy lockout; Priority watch; Cloning capability; One-piece, die-cast aluminum chassis and built to MIL-specs for shock and vibration; Mobile mounting bracket; Requires 13.8V DC @ 12A. Dim: 5.5" w x 1.6" h x 7.1" d; 2 lbs. 10 oz..... **Call/Web**

Available Accessories:

BC96 Microphone holder, CSW2100 Windows software and cable, CS2100 DOS cloning software, EX1759 Infrared receiver, HM1335 Extra touch-tone mic, HM90A Wireless microphone, MB17A Quick release bracket, MB28H Mobile bracket, OPC346 9.8" DC cable, OPC347 23" DC power cable, OPC440 16.4" mic extension cable, OPC441 Speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS232C cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2" mic extension cable, SP10 Slim-line ext. spkr.



IC-V8000 2M FM Transceiver – Big 75W power output. Covers 144–148 MHz transmit with 136–174 MHz receive. 207 alphanumeric memory channels including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone. Dim: 5.9" w x 2" h x 5.9" d; 2.22 lbs..... **Call/Web**

Available Accessories:

CSV8000 Windows software, OPC1132 9.8" DC cable, OPC347 23" DC cable, OPC440 16.4" mic extension cable, OPC441 Speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2" mic extension cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket



The perfect emergency communications solution

Looking for the perfect emergency communications solution? Keep watch with Icom's 'V8 handheld and 'V8000 mobile combo. These military-rugged 2 meter transceivers are your ready and able sentrys, there when you need them most. Loud, clear audio and simple, straight forward design. Swap out the standard Ni-Cd battery that comes with your 'V8 for an optional AA alkaline case, and you'll always have a ready-to-go communications solution stored nearby. And for power that packs a punch, nobody beats the 'V8000's 75W of output power - talk and be heard futher! For the home, the car, or wherever you are. Visit your favorite AES location.

IC-V8, Rugged easy to use 2M HT • 5.5/0.5W Output Selectable • 107 Alphanumeric Memory Channels • CTCSS/DTCS Encode/Decode w/Tone Scan • DTMF Encode • Auto Repeater • Excellent Recovered Audio • 300mW Audio Output • Reverse Shift Function • Backlit LCD • Reversible Up/Down Switch & Rotary Selector • Drop-In Charger • PC Programmable with optional equipment

IC-V8000, Powerful 2M mobile • 75W Output • 207 Alphanumeric Memory Channels • CTCSS/DTCS Encode/Decode w/Tone Scan • DTMF Encode • Backlit Remote Control Mic • FM Wide/Narrow • Weather Alert Scan • Dynamic Memory Scan • 10dB Squelch Attenuator • Priority Watch • Versatile Cloning • Front Firing Speaker • Rugged Construction

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IC-2200H 2M FM Transceiver – A rugged design with a large Amber or Green LCD display with four levels of brightness, backlight keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals such as pagers. Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCSS encode/decode plus tone scan functions and "pocket beep"; Three-way Priority watch; 24 DTMF autodial memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5" w x 1.56" h x 5.25" d; 2.75 lbs. **\$229.99**

Available Accessories:

CS2200H Windows™ software, MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2' microphone extension cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, UT118 Digital board

DUAL BAND MOBILES



IC-2720H 2M/70cm FM Transceiver – Provides VHF/VHF, UHF/UHF simultaneous receive along with VHF/UHF full duplex. Covers 144-148 & 430-450 MHz transmit with 118-550 MHz, 118-174, 375-550 & 810-999 MHz receive (cellular blocked), includes AM Air band and Weather with Alert. Power: 50/35W (2M/70cm); 212 memories (10 banks), 2 call, 10 scan edges; Auto repeater offset; Backlit remote control microphone; Independent controls for each band; 12 DTMF memories; Selectable Amber/Green display; CTCSS/DTCS encode/decode, tone scan and pocket beep; Dynamic memory scan; 1200/9600 bps 6-pin terminal; PC programmable with optional software and cable; Includes 11.5 ft. separation cable. Dim: 5.5" w x 2" h x 1.1" d; 5.29 oz. (head), 5.5" w x 1.6" h x 7.4" d; 3.08 lbs. (main unit) **Call/Web**

Available Accessories:

CS2720 Windows/DOS cloning software, MB17A Quick release bracket, MB65 Mounting base platform, MB84 Remote controller bracket, MB85 Combination bracket, OPC1132 9.8' DC cable, OPC1156 11.5' separation cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio-to-radio cloning software, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2' mic extension cable, SP10 Slim-line external speaker



IC-208H 2M/440 Dualband Mobile – More power, wider receive, and lots of memory. Covers 144-148 and 430-450 transmit with 118-173, 230-549, 810-999 MHz (cell blocked) wide band receive. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alphanumeric memory channels; Improved Dynamic Memory Scan (10 banks), 2-100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control microphone included. Dim: 5.56" w x 1.56" h x 7.31" d; 2.65 lbs. **Call/Web**

Available Accessories:

CS208 Windows cloning software, MB17A Quick release bracket, MB58 Remote controller bracket, MB65 Mounting base platform, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' separation kit, OPC647 8.2' mic extension cable, SP10 Slim-line external speaker

KENWOOD SINGLE BAND FM MOBILE



TM-271A 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset; FREE memory control software available at kenwood.net **\$184.99**

Available Accessories:

MJ88 Modular/8-pin adapter, PG2N DC cable, PG5D PC interface cable, SP50B External mobile speaker

KENWOOD DUAL BAND VHF/UHF MOBILES



TM-V708A 144/440 MHz Dual Band Transceiver Kenwood's new advanced Dual-Bander provides World-Class communications. It's similar to the popular TM-D700A except that it does not have APRS firmware, TNC or computer hookups. 144-148/430-450 MHz – Dual Display; Power: (VHF) 50W & (UHF) 35W; RX: 136-175, 300-524 & 800-1300 MHz (cell blocked); 200 Alpha Memories; Auto repeater Offset; Automatic Simplex Checker; Visual Band Scope; DTSS Selective Call, PL Decode/Encode; Remote Head; DTMF Backlit Hand Microphone; Dim: 5.51" w x 1.58" h x 7.68" d; Body: 2.6 lbs. Panel: 0.4 lbs. **Call/Web**

Available Accessories:

MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, SP50B Ext. mobile speaker, VS3 Voice synthesizer



TM-G707A 144/440 MHz FM Dual Band – Extraordinarily user-friendly with extra-large detachable control panel. 144-148, 430-450 MHz transmit; 118-174, 410-524 MHz receive; 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with high-visibility amber LCD display; 180 multi-function alphanumeric memories; Multi-scan functions; Priority scan function; Built-in CCTSS encoder and decoder; 1200/9600bps packet ready; Cross band repeater access; Selectable frequency step; S-meter squelch; Time-out timer; Dimmer control; Auto power-off; Multi-function backlit microphone with DTMF. Dim: 5.5" w x 1.5" h x 7.4" d; 2.7 lbs **\$269.99**

Available Accessories:

DFK3C 9' cable kit, DFK4C 13' cable kit, DFK7C Deluxe 23' remote kit, MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG4S PC interface cable, PG5A Packet data cable, SP50B External mobile speaker, VS3 Voice synthesizer

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IC-706MKIIG



IC-2100H



IC-208H



IC-T90A



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Up in the air over what to take with you when you're on the go? With our large selection of mobile and handheld radios, Icom makes sure you won't miss out on any of the fun!

IC-706MKIIG *HF performance, mobile size!*

- 160-10M/6M/2M/70CM*1 • HF/6M @ 100W, 2M @ 50W, 70CM @ 20W
- 107 Alphanumeric Memories • CTCSS Encode/Decode w/Tone Scan • DSP
- Auto Repeater • Backlit Function Keys • Built-In Keyer • IF-Shift • And More!

IC-208H *Dual band with attitude!*

- 2M/70CM • 55W VHF/50W UHF • 500 Alphanumeric Memories
- CTCSS/DTCS Encode/Decode w/Tone Scan • Wide Band RX* 118 - 999.99 MHz • Remote Control Mic • DMS • DTMF Encode • And More!

IC-2100H *Commercial grade rugged!*

- 2M • 50W Output • 113 Memory Channels • CTCSS Encode/Decode w/Tone Scan • Remote Control Mic • Commercial Grade • Rugged Construction • Auto Repeater • Green or Amber Display • PC Programmable** • And More

IC-T90A *Pocket sized tri-bander!*

- 6M/2M/70CM • 5W Output • Wide Band RX*: 495 - 999.99 MHz • 500 Alphanumeric Memories • CTCSS & DTCS Encode/Decode w/Tone Scan • Backlit Function Keys • Weather Alert • PC Programmable** • And More!

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*Cellular frequencies blocked on US versions. **Optional equipment required. *1 60M excluded. ©2005 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 7760

val•ue (văl'yōō) n from L valuta, worthy

1. a fair return in money or another medium of exchange for something. "My Icom dual band mobile radio was well worth the money, a great value."

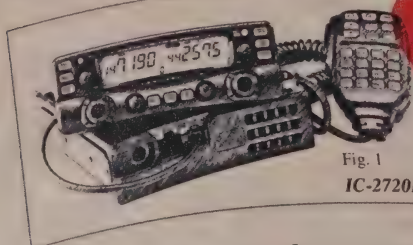


Fig. 1
IC-2720H

<positive value for the money> <the value of unimpaired communications during an emergency>

4. a. a numerical quantity that is assigned or is determined by calculation or measurement <the value of x> "If I have ten Icom dual band mobile radios, and I take away four, I am in extreme sorrow, and I am left with a value of six Icoms - which is still a hundred times better than any other radio, let me tell you!" b. precise signification <the word value of something> "My Icom dual band mobile radio is beyond measurable value when it comes to emergency preparedness."

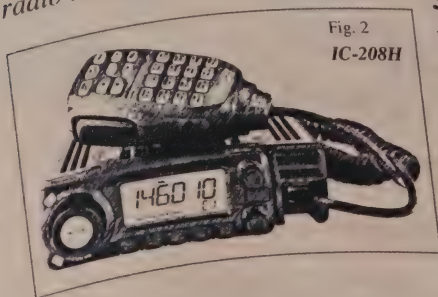


Fig. 2
IC-208H

5. a. the real or perceived duration of time a musical note is held. "The clarity of sound my Icom dual band mobile gives is music to my ears." b. the written representation of the quality of tone or a spoken sound. "My Icom IC-208H has 2 Watts of audio output."

6. a. the lightness or darkness of a color: LUMINOSITY b. the relation of one part in a picture to another with respect to lightness

and darkness "The amber value of my Icom's LCD display is adjustable to the environmental needs, and is perfect to see day or night."

7. something (as a principle or quality) intrinsically valuable or desirable <sought material values instead of human values> "I value my Icom IC-208H dual band mobile radio above any other due to the 50W UHF output." value verb
Inflected Form(s): val-ued; val-u-ing; got to have one

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KENWOOD

DUAL BAND VHF/UHF MOBILE



TM-D700A 144/440 MHz Dual Band Data Communicator – Fully equipped to complement SSTV, GPS and APRS® operations. Covers: 144-148, 430-450 MHz transmit with 118-148, 136-175, 300-524 & 800-1300 MHz (cellular blocked) wide band receive. Power: 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with large backlit LCD and multi-function key display; Backlit microphone with alphanumeric input; Easy-to-use menu system; Advanced APRS-99 features; Built-in 1200/9600bps TNC (AX.25); DX cluster monitoring; Dual receive on same band for voice and data; 200 alphanumeric memories; 2 call channels; 10 programmable memory scan banks; Built-in CTCSS and 1750 tone burst; Digital Code Squelch (DCS); DTMF memory; Cross band and fixed band repeater operation; DCS code scan, tone, CTCSS scan; 10-channel program scan; Visual band scope; 13.8VDC @ 11.5A. Dim: 5.5" w x 2.4" h x 1.2" d; 0.4 lbs. (control); 5.5" w x 1.2" h x 7" d; 2.6 lbs. (main)..... **\$519.99**

Available Accessories:

MB201 Mobile bracket, MJ88 Modular 8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, SP50B External mobile speaker, VS3 Voice synthesizer

KURANISHI

BR-210 Standing Wave Analyzer – Measures antenna SWR, impedance and resonant frequency. Built-in frequency counter for direct frequency readout. Works without an external RF source; take it right to the antenna and check system performance by yourself, and using the intuitive displays, make antenna adjustments quickly and accurately. Covers: 1.8–170 MHz. Operates about 14 hours using six "AA" batteries. Small and easy to handle. Dim: 3.25" w x 6.75" h x 2.5" d; 1.8 lbs..... **\$429.99**



YAESU

SINGLE BAND MOBILE



FT-2800M 2M FM Transceiver – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready. Dim: 6.3" w x 2.0" h x 7.3" d; 4 lbs..... **Call/Web**

Available Accessories:

ADMS2J Programming software, MLS100 Mobile speaker, S8002051 Mobile bracket, S8101436 DC cable

DUAL BAND MOBILES



FT-7800R 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and microphone keys; WIRES™ capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs **Call/Web**

Available Accessories:

ADMS2K Programming software, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 DC cable, YSK7800 Remote separation kit



FT-8800R Dualband FM Mobile – Easy operation, outstanding receiver performance, and crossband repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive (keep informed in the Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required). Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs **Call/Web**

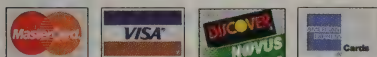


FT-8900R Quad Band FM Mobile – National or World-wide FM communications from a vehicle. Covers 28-29.7, 50-54, 144-146, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); FM satellite operation; Over 800 memories; DTMF auto-dial memory; One-touch band-pattern "Hyper-Memory," allows set up and storage of complete transceiver configuration settings. Saves button pushing! CTCSS and DCS encode/decode; Smart-Search™ auto memory loading; Cross band repeat; Independent, 2-channel, dual receive and full duplex (separate volume and squelch controls, as well as S-meters); Built-in duplexer; WIRES™ compatible; RF squelch; Auto repeater shift; ARTS™ capable; User-programmable microphone keys; Easy set up for FM satellite operation; Battery voltage meter; Time-out timer; Automatic power off; Large, easy-to-read LCD display; 1200/9600 bps packet; Thermal-sensored cooling fan; Remote head mounting capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs..... **Call/Web**

Available Accessories for FT-8800R & FT-8900R:
ADMS2H Programming software (8900R), ADMS2I Programming software (8800R); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, MMB62 Remote control panel bracket, T9021810 DC cable, YSK8900 Remote separation kit

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AES

RADIOS

65

In the field, or on the way there, Choose the YAESU "HF Mobility" Series!



FT-897D

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

TCXO DSP 60 m Band

- High Stability TCXO Built In (0.5 ppm @ 77° F/25° C) for rock-solid PSK31, SSTV, or other data modes.
- Improved 1st IF Roofing Filter for enhanced operation in crowded bands.
- Compatibility with optional MH-59AU Remote Control Microphone.
- Built-in DSP (Digital Bandpass Filter, Digital Noise Reduction, Digital Notch Filter).
- 32-Color Liquid Crystal Display.
- Optional ATAS-120 Auto-Tune and ATAS-25 Manual-Tune Antennas.
- Optional YF-122CN 300 Hz Collins® Mechanical CW Filter.



FT-857D

HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

DSP 60 m Band

- Built-in DSP (Digital Bandpass Filter, Digital Noise Reduction, Digital Notch Filter).
- Improved 1st IF Roofing Filter for enhanced operation in crowded bands.
- Optional MH-59AU Remote Control Microphone.
- 32-Color Liquid Crystal Display.
- Options: ATAS-120 Auto-Tune and ATAS-25 Manual-Tune Antennas.
- Optional YF-122CN 300 Hz Collins® Mechanical CW Filter.



Mobile Auto-Resonating
7 ~ 430 MHz
ATAS-120
Active Tuning Antenna
System (no separate
tuner required).

ATAS-120
VHF/UHF Base Radial
Kit ATBK-100

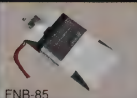


FT-817ND

HF/50/144/430 MHz
5 W All Mode Transceiver
(AM 1.5 W)

60 m Band

- High-capacity 9.6V 1400 mAh Ni-MH Battery Pack (FNB-85) and NC-72B Battery Charger Included!
- Optional YF-122CN 300 Hz Collins® Mechanical CW Filter.
- Optional ATAS-25 Compact Manual-Tune Antenna.



FNB-85



NC-72A



FNB-85

- 3-Color (Amber/Blue/Violet) Liquid Crystal Display

VFOa USB
50.110.00
A/B A=B SPL

Violet

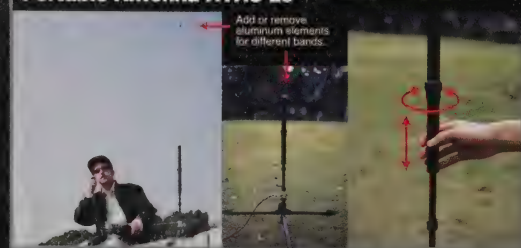
VFOa USB
50.110.00
A/B A=B SPL

Amber

VFOa USB
50.110.00
A/B A=B SPL

Blue

ATAS MICRO Manually-Tuned High-Performance Portable Antenna ATAS-25



Automatic Matching for FT-897/857 Series Transceivers



NEW

FC-40

Automatic-Matching
200-Memory
Antenna Tuner

WATER PROOF



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<http://www.vxstdusa.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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Wide Receiver Coverage
Including AM Aircraft Reception,
NOAA Weather Alert Broadcasting* *USA Version

Five One-Touch "Hyper Memory"
Transceiver Configuration Keys

Over 1000 Memory Channels
with Alpha-Numeric Labels,
Twenty Memory Groups

WiRES™ Internet Linking
Compatibility

144/430 MHz
DUAL BAND



ACTUAL SIZE
*Simulated LCD display

YAESU FM Mobile Series

QUAD BAND
DUAL RECEIVE

FT-8900R
29/50/144/430 MHz FM QUAD BAND TRANSCEIVER

DUAL BAND
DUAL RECEIVE

FT-8800R
144/430 MHz FM DUAL BAND TRANSCEIVER

DUAL BAND

FT-7800R
144/430 MHz DUAL BAND
FM TRANSCEIVER

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Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.



SSB ADVENTURE RADIOS

Turn on, tune in and transmit. A basic radio providing 7-10W PEP (20W on 10M model) along with Constant Current™ syllabic speech processing for an added 4-6dB advantage. Agile tuning reduction drive analog VFO-tune band quickly, zero in smoothly. Low noise preamp and active double balanced mixer front end; Sharp 2.3 kHz SSB crystal ladder filter reduces passband noise and QRM; Built-in Low Pass Filter; Analog S-meter; Amplifier control jack; Built-in Speaker; Handheld dynamic microphone. Requires only 3 Amps from 12V supply or battery. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

9402X 2M SSB Adventure Radio, 7W.... **\$269.99**

9406X 6M SSB Adventure Radio, 10W... **\$249.99**

9410X 10M SSB Adventure Radio, 20W **\$239.99**

Available Accessories:

1770A 10M dipole (9410X only), 4110 Portable AC power supply, 4114 Rechargeable power pack, 416 CW adapter, 971 200W HF tuner (9410X only)

MFJ MFJ ENTERPRISES, INC.



VHF DATA RADIOS

Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.

8621 PacketOnly™ 2M Transceiver – Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs. Features: 1200/9600 baud; 5W output; Low current drain only 15mA on receive and less than 1 amp on transmit. Dim: 5" w x 5" d x 1.5" h; Crystals installed for 145.01 MHz. **\$139.99**
8621X2 PacketOnly™ 2M Transceiver – Ready for APRS use. Crystalled and aligned for 144.390 MHz; 5W output **\$149.99**

Available Accessories:

4110 Portable AC power supply, 5100 Data radio cable (MFJ/TAPR), 5100YH Data radio cable (KPC9612), 5100YV Data radio cable (KAM/KPC3), 5106 Open end (6-pin mini) Kenwood/Yaesu)

VECTRONICS



DUMMY LOADS

DL-300M Dry Dummy Load (middle) Simulates an accurate 50Ω antenna up to 150 MHz. Test or tune up your transmitter without radiating a signal on the air. Power handling curve rated at 300W for 15 seconds, to 100W for 40 seconds. VSWR <1.3:1 at 150 MHz. Dim: 5" h x 2" d x 2.875" h; 8 oz.. **\$44.99**

DL-650M Dry Dummy Load (left) Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 minutes. VSWR <1.3:1 at 500 MHz **\$74.99**

DL-2500 High-Power Dry Load (right) A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes **\$179.99**

SWR/POWER METERS

PM-30HF Similar to pic. RMS or PEP forward and reflected power and SWR simultaneously. Lighted cross-needle meter. Covers 1.8-60 MHz, 300/3000W. Dim: 5.313" w x 3.5" h x 5.75" d; 1.2 lbs **\$79.99**

PM-30UV (shown) Same features as the PM-30HF, but covers 144, 220 and 450 MHz bands... **\$89.99**



Come visit our newest location!
Just kidding, here is our old Lisbon Ave. store,
our second in Milwaukee, WI.



Can you identify all these antique amateur products?

Manufacturer Model	ALINCO* DX-70TH	ALINCO* DX-77T	ICOM* IC-703PLS	ICOM* IC-706Wk1G	ICOM IC-718	ICOM IC-746PRO	ICOM IC-756PROIII	ICOM IC-7800	KENWOOD TS-2000, TS-B2000 TS-2000X	KENWOOD* TS-480HX	KENWOOD* TS-480SAT	KENWOOD TS-50S	KENWOOD TS-570D(G)	KENWOOD TS-570S(G)
Bands	HF 6M	HF	HF 6M	HF 6M	HF	HF 6M, 2M	HF 6M	HF 6M	HF 6M, 2M	HF 6M 70CM, 1.2GHz	HF 6M	HF	HF 6M	HF 6M
Rx Range (MHz)	15-30, 50-54	5-30	03-30	03-200	03-30	03-200	03-60	03-60	03-60, 142-152	5-60 420-450 1240-1300*	5-60	5-30	5-30	5-30, 6M
Power (SSB/CW/FM)	100W	10-100W	10/5W	5-100W ⁽⁹⁾	5-100W ⁽⁹⁾	5-100W	5-100W	5-200W	100W HF/6/2M	200W HF ⁽¹⁰⁾ 50W 70CM 10W 1.2GHz*	100W 100W 6M	100W	5-100W	
Power (AM)	40W	4-40W	2/4W	2-40W HF/6M 2-20W 2M 2-8W 70CM	2-40W	5-40W	5-40W	5-50W	25W HF/6/2M	5-25W 12.5W 70CM 2.5W 1.2GHz*	5-50W	5-40W	5-25W	5-25W
DSP	No	No	Yes	Yes	Optional	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Tuner	No	No	Yes	Yes	Optional	Internal	Internal	Internal	Yes	Optional	Yes	No	Yes	Yes
Keyer	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Speech Readout	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	No	Optional	Optional
VOX	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Power Requirements	12VDC 20A	12VDC 20A	9-15.8VDC 2/3A	12VDC 20A	12VDC 20A	12VDC 20A	12VDC 23A	85-265V 21A	12VDC 20.5A	12VDC 41A	12VDC 20.5A	12VDC 20.5A	12VDC 20.5A	12VDC 20.5A
Antenna ports	2 ⁽³⁾	1	1	2 ⁽⁴⁾	1	3 ⁽⁴⁾	2	4	5	2	2	1	2	2
Computer Port	No	Optional	Yes	Optional	Optional	Optional	Optional	Yes	Yes	Yes	Yes	Optional	RS-232	RS-232
Height (in.)	2.3	3.7	2.3	2.3	3.75	4.7	4.3	5.9	3.75	2.4	2.4	2.4	3.8	3.8
Width (in.)	7	9.8	6.6	6.6	9.44	11.3	18.3	16.6	10.625	7	7	7.1	10.6	10.6
Depth (in.)	9	9	7.87	7.9	9.40	12.5	11.2	17.1	12.5	10.2	10.2	9.2	10.7	10.7
Weight (lbs.)	6	8.4	4.4	5.5	8.4	19.5	21	21	55	17.19	7	6.4	7	15

Manufacturer Model	MFJ 9015	MFJ 9020	MFJ 9030	MFJ 9040	MFJ 9410X	MFJ 9420X	MFJ 9440X	MFJ 9475X	SGC 05-04 SG-2020	YAESU FT-817ND	YAESU FT-840	YAESU FT-847	YAESU FT-857D	YAESU FT-897D	YAESU FT-1000MP MKV	YAESU MK V FIELD
Bands	15M	20M	30M	40M	10M	20M	40M	75M	HF	HF 6M 2M 70CM	HF	HF 6M 2M 70CM	HF 6M	HF 6M 2M 70CM	HF	HF
Rx Range (MHz)	21-21.2	14-14.075	10.1-10.15	7-7.15	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	1.8-29.7	1-56 76-154 420-470	1-30	1-30 36-76 108-174 420-512	1-56 76-108 118-164 420-470	1-56 76-108 118-164 420-470	1-30	1-30
Power (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB	12W SSB	12W SSB	12W SSB	0-20W SSB/CW	5W SSB/CW	100W ⁽¹⁰⁾	5-100W HF/6M 50W 2M/70CM 20W 70CM ⁽⁸⁾	100W HF 50W 2M 20W 70CM ⁽⁸⁾	100W HF/6M ⁽⁸⁾ 50W 2M 20W 70CM ⁽⁸⁾	20W 50W 2M ⁽⁸⁾	100W
Power (AM)	No	No	No	No	No	No	No	No	No	1.5W 12.5W 2M 12.5W 70CM	25W 12.5W 2M 12.5W 70CM	25W HF/6M ⁽⁸⁾ 5W 70CM ⁽⁸⁾	25W HF 5W HF/6M ⁽⁸⁾	25W HF/6M ⁽⁸⁾	50W	25W
DSP	No	No	No	No	No	No	No	No	No	No	No	Yes	Optional	Yes	Yes	Yes
Tuner	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes
Keyer	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Speech Readout	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
VOX	No	No	No	No	No	No	No	No	No	Yes	No	No	Yes	Yes	No	Yes
Power Requirements	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 5A	12VDC 2A	13.8VDC 22A	13.8VDC 22A	12VDC 22A	13.8VDC 22A	FP29 30V (supplied)	125VAC 13.8VDC
Antenna ports	1	1	1	1	1	1	1	1	1	2	1	4 ⁽⁹⁾	2	2	2	2
Computer Port	No	No	No	No	No	No	No	No	Optional	Yes	Optional	RS-232	Optional	RS-232	Yes	Yes
Height (in.)	2.5	2.5	2.5	2.5	2.5A	2.5	2.5	2.5	3.7	1.5	3.7	3.4	2	3.14	5.4	5.3
Width (in.)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	9.4	5.3	9.4	10.2	6.1	7.9	16.4	16
Depth (in.)	6	6	6	6	6	6	6	6	7.25	6.5	9.6	10.6	9.2	10.3	13.9	13.7
Weight (lbs.)	2	2	2	2	2	2	2	2	2.5	2.6	12	14.4	4.6	8.6	31	33

*Removable control head

(3) HF/6M one port, 2M/440MHz second port

(8) On internal batteries: 20W (10W on 70cm)

*Optional module required for TS-2000 and B versions

(9) On internal batteries: 5W (2.5W on 70cm)

(1) One port for HF; one port for 6M

(10) Requires DC 13.8V power supply

(7) No FM

**Links to Manufacturer's
Websites at aesham.com**

SINGLE BAND MOBILE TRANSCEIVERS											
Manufacturer	ADI	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	MFJ
Model	AR-147+	DR-135THKII, TPXKII	DR-135THKII, TPXKII	DR-235T	DR-235T	DR-435THKII	IC-2100H-25N	IC-2200H	IC-V8000	TM-271A	8621
TX Range (MHz)	144-148	50-54	144-148	222-224.995	144-148	440-449.995	144-148	144-148	144-148	144-148	8621X2
Rx Range (MHz) ⁽¹⁾	118-171	40-60 ⁽¹⁾	118-174	216-279.995	350-511.995	136-174	118-174	136-174	136-174	144-144.3	50-50.3
Aircraft Rx	Yes	N/A	Yes	No	No	No	No	No	No	No	No
Power Output	60/15/5W	20/1W	25/10/5W	25/10/5W	35/10/5W	50/10/5W	65/25/10W	75/25/10/5W	60W	5W	7W SSB
TTP Microphone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Tone Encode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Tone Decode	Yes/DCS	EI-20U	Yes	Yes	Yes	Yes	Yes	Yes	Yes/DCS	No	No
Memories	80	100	100	100	100	113	207	207	207	0	0
Alphanumeric	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
PC Programmable	Yes	N/A	No	No	No	No	Yes	Yes	Yes	No	No
13.8V DC@	12A	5A	11A	8A	10A	12A	15A	15A	13A	>1A	2A
Antenna Conn	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239
Size (l/w/d, in.)	1.95/5.0/5.5	1.6/5.5/4.5	1.6/5.6/6.9	1.6/5.6/6.9	1.6/5.6/6.9	1.6/5.6/6.9	1.6/5.6/7.1	1.6/5.6/7.3	1.7/6.3/5.4	1.5/5.5	2.5/6.5/6
Weight (lbs.)	2.65	1.5	2.3	2.3	2.3	2.3	2.5	2.7/5	2.22	2.6	2

MULTI BAND MOBILE TRANSCEIVERS											
Manufacturer	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU
Model	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M	FT-2800M
TX Range (MHz)	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148
Rx Range (MHz) ⁽¹⁾	137-174	137-174	137-174	137-174	137-174	137-174	137-174	137-174	137-174	137-174	137-174
Aircraft Rx	No	No	No	No	No	No	No	No	No	No	No
Power Output	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W	65/25/10/5W
TTP Microphone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tone Encode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tone Decode	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS	Yes/DCS
Memories	221	221	221	221	221	221	221	221	221	221	221
Alphanumeric	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PC Programmable	No	No	No	No	No	No	No	No	No	No	No
13.8V DC@	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
Antenna Conn	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239	S0-239
Size (l/w/d, in.)	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3	2.6/3.7/3.3
Weight (lbs.)	2	2	2	2	2	2	2	2	2	2	2

- (8) Manufacturer only guarantees specs within the ham bands
 (10) There are gaps in non-voice or data portions in certain bands
 (11) Control head separate from body
 (12) FT-8900R includes 10W/6W as well
 All radios are cellular blocked
- * Removable control head
 (1) Requires keyboard modification
 (2) Expanded memory requires optional E1-19U
 (3) 2 Piece configuration only
 (5) All models are Cellular Blocked
 (6) AM aircraft receive mode
 (7) Does not include projections (knobs, antenna jacks, etc.)

Links to Manufacturer's
Websites at aesham.com

MULTI BAND MOBILE TRANSCEIVERS											
Manufacturer	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO
Model	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ	DR-605TQ
Tx Range ⁽¹⁾	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148
Rx Range (MHz) ⁽¹⁾	136-174	136-174	136-174	136-174	136-174	136-174	136-174	136-174	136-174	136-174	136-174
Single or Dual Rx	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Power (2M) ⁽²⁾	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W	50/5W
Power (40MHz)	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W	35/5W
Memories	100	200	200	200	200	200	200	200	200	200	200
Tone Encode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tone Decode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duplexer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cross-Band Rpt	Yes	No	No	No	No	No	No	No	No	No	No
Alphanumeric	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PC Programmable	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9600b Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Separateable	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Height (in.) (Head)	1.6	5.51	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Width (in.)	5.5	1.57	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Depth (in) ⁽³⁾	6.9	7.28	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
Weight (lbs)	2.4	2.2	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6

Coaxial Dynamics



ELEMENTS
WORK IN
BIRD METERS!

RF DIRECTIONAL WATTMETERS

81000-A RF Directional Wattmeter - Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1-10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order)..... **\$275.99**

83000-A RF Peak Reading Wattmeter - Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode..... **\$393.99**



ALAN BROADBAND ZAP-CHECKER

Broadband Field Strength Bug Detector - A wideband 10 MHz to 4.5 GHz receiver that provides visual indications of the presence or RF energy. Sensitive, detects 2.4 GHz bugs at 40 feet. Analog meter and LED display, for viewing at a distance and at nighttime. Silent

vibrator mode for in-pocket detection and hands-free operation. Use for bug detection, wireless, aircraft maintenance, health/environmental and ham radio. Detects and measures, cell phone radiation, microwave ovens, computer wireless devices, microwave data transmissions, covert surveillance cameras and bugs, radiating computers and electronic games, and background radiation levels Dim: 2" w x 5" h; 5 oz **\$89.99**

DIAMOND ANTENNA



SWR/POWER METERS

(left) Five models measure power and SWR with 5-10% of E.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6" w x 2.5" h x 4" d; 2 lbs.

SX-100 1.6-60 MHz, 30/300/3kW PEP... **\$134.99**

SX-200 1.8-200 MHz, 5/20/200W PEP **\$94.99**

SX-400 140-525 MHz, 5/20/200W PEP. **\$114.99**

SX-600 Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **\$169.99**

SX-1000 Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges..... **\$214.99**

CROSS-NEEDLE SWR/POWER METERS

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% E.S. accuracy, 3.3" w x 3.4" h x 3.7" d; 9 oz.

SX-20C 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs SW minimum for VSWR. **\$89.99**

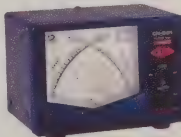
SX-40C 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power).... **\$79.99**



CROSS NEEDLE SWR/POWER METERS

CN-101 Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward and Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W min. 50Ω impedance, SO-239 connectors. Dim: 6" w x 3" h x 3.875" d; 1.5 lbs **\$99.99**

CN-103M Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) **\$99.99**



PROFESSIONAL SERIES

The CN-801 series of cross needle meters features the most accurate meter and largest meter face in the Daiwa line.

The large, easy-to-read meter has .5W increments and is lighted. This is truly a professional quality meter. 5W SWR detection sensitivity (min.); 50Ω impedance. Dim: 6" l x 4" h x 4.5" w; 2.2lbs

CN-801H 1.8-200 MHz, 20/200/2kW **\$149.99**

CN-801V 140-525 MHz, 20/200W **\$154.99**

Bel MERIT

DX-405 Multi-function Multi-meter - 10 functions and 39 ranges; 3.5 digit, manual ranging; Frequency meter, to 20 MHz; 0.25% DCV basic accuracy; Measure Voltage, Current, Resistance & Diode. Continuous beeper; Data hold; Auto power off; Input warning; Holder with tilt stand. Dim: 4" w x 7.5" h x 1.5" d; 1.5 lb..... **\$69.99**



DM-80 Pocket Digital Multimeter - 3200 count; 32 segment bargraph; Auto & manual ranging; Auto shut off; Data hold; Range; Voltage, AC/DC 450V; Resistance, 30MΩ; Diode tester; Continuity beeper; Over range indication; Low battery mark; Auto polarity; Carrying case. Dim: 2" w x 4.1" h x 0.4" d; 3.2 oz **\$29.99**



SWR-1 Field Strength or SWR Meter - Range: 3.5-150 MHz; Impedance: 52Ω; SWR: 1:1-3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5" RF pick-up antenna. Dim: 6" h x 2" w x 2.9" d; 14 oz **\$24.99**

SWR-3 SWR Meter - Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1-3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5" h x 3.5" w x 3" d; 6 oz **\$14.99**

370052 Digital Multi-Meter - 3.5 digit LCD, 0.5" w with polarity indicator; Measures DC volts in 5 ranges: 200mV-600V; AC volts: 200V and 600V; DC current in 5 ranges: 200uA-10A; Resistance in 5 ranges: 200Ω-20kΩ. Diode test; forward voltage drop; Transistor test: shows hFE value; Comes with 100-hour, 9V battery and plug-in test leads. Dim: 2.76" w x 4.96" h x 0.94" d; 6 oz **\$19.99**

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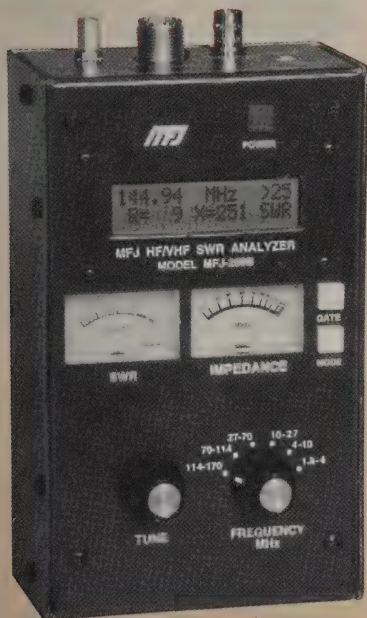
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MFJ

1.8-170 MHz



259B \$239⁹⁹

MFJ SWR Analyzers

... for Serious Antenna Performance!

You've spent a lot of time and money on your antenna system, so why not make sure it's giving you top performance? An MFJ SWR Analyzer will do that – plus, it will make you very popular because all of your Ham buddies are going to want to borrow it!

The MFJ 259B and 269 are complete Ham radio test stations, including – Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more!

The 259B and 269 can take the frustration out of tuning your antennas for maximum performance. Gone are the days of using a conventional, sometimes questionable, SWR meter. You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make those seemingly endless readings and adjustments.

The 259B and 269 are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial – just like a transceiver. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency, simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312D adapter (\$14.99) or on 10 "AA" internal batteries, not included. For rechargeables, there is a built-in charger, MFJ's 1312D required.

All metal cabinet, 6-3/4" h x 4" w x 2" d.

Overall, here's what you can do...

- Read antenna SWR & Complex Impedance from 1.8-170 MHz with the 259B and additionally 415-470 MHz with the 269. Complex Impedance can also be read as series resistance and reactance (R+jX) or as magnitude (Z) and phase (degrees).
- Find true resonant frequency of antenna.
- Trim dipoles and verticals to resonance.
- Adjust your Yagi, quad, loop and others. Change antenna spacing and height – watch SWR, resistance and reactance change instantly.
- Perfectly tune critical HF mobile antennas in seconds for top performance – without subjecting your transceiver to high SWR.
- Measure your antenna's 2:1 SWR bandwidth on one band, or analyze multiband performance over the entire spectrum.
- Check SWR outside the ham bands without violating FCC rules.
- Adjust your antenna tuner for a perfect match without creating QRM.
- Take the guesswork out of building and adjusting phasing lines, matching networks and baluns.
- Accurately measure distance to a short or open in a failed coaxial transmission line. Measure the length of a roll of coax and also determine loss, velocity factor and impedance.
- Measure frequency with built-in counter.
- Frequency counter function.
- Troubleshoot and measure resonant frequency and approximate Q of traps, stubs, transmission lines, RF chokes, tuned circuits and baluns.

269 SWR Analyzer

E-X-P-A-N-D-E-D Frequency Coverage & Added Features

1.8-170 MHz plus 415-470 MHz

Looks nearly identical to, and has all the features of the 259B PLUS...

- Covers 1.8 to 170 MHz plus 415 to 470 MHz
- Built-in Coax Calculator™ – calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor (great for building matching sections and phasing lines for multiple antennas).
- New 12-bit A/D converter gives much better accuracy and resolution than common 8-bit A/D converters.

New 1.8 to 170 MHz Range features:

- Read Complex Impedance as series equivalent resistance and reactance (R+jXs) or as magnitude (Z) and phase (degrees). Also reads parallel equivalent resistance and reactance (Rp+jXp).
- Measure SWR and loss of coax with any characteristic impedance from 10 to over 600Ω, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450Ω.

415 to 470 MHz Range features:

- Read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency.
- Has LCD logarithmic SWR bargraph and SWR meter for quick tuning.

269 \$319⁹⁹

SWR Analyzer Accessories

- 29C Carrying Case** – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions blows and protects unit from wear and tear. **\$24.99**
- 39C Carrying Case** – Fits the 269. **\$24.99**
- 66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils covers 1.8-170 MHz range. **\$19.99**
- 98 Accessory Pack** – Includes 39C case, 66 dip adapter and 1312D AC adapter. **\$54.99**
- 99 Accessory Pack** – Includes 29C case, 66 dip coils and 1312D AC adapter. **\$54.99**
- 99B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and 1312D AC adapter. **\$77.99**
- 99C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1312D AC adapter. **\$34.99**
- 731 Tunable Measurement Filter** – Use with 259B or 269 for accurate measurements in the 1.8-30 MHz range while in the presence of strong RF fields from nearby broadcast stations or other RF emitters. **\$89.99**



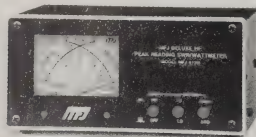
MFJ SWR/POWER METERS, etc.

864 (bottom)

Covers 1.8-60 MHz, 144 MHz and 440 MHz bands. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously of either on the lighted Cross-Needle meter. Ranges: 30/300W forward and 6/60W reflected. Uses 12V DC for meter light. Dim: 7.25" w x 2.5" h x 2.25" d. **\$84.99**

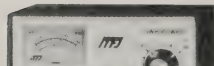
862 (middle) - Similar to the 864, but for 144, 220 & 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d. **\$54.99**

860 (top) Similar to the 864, but covers 1.8 to 60 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 4.5" w x 2.25" h x 3" d. **\$44.99**



815B - Features a large 3 in. Cross-Needle meter for accurate SWR and peak or average power readings from 1.8-60 MHz. Ranges: 200/2000W forward and 50/500W reflected. Push button selection. 12V DC meter light. 7.25" w x 2.5" h x 2.25" d. **\$79.99**

817 - Looks and features similar to 815B but for 140/440 MHz bands. Ranges: 200/20W forward and 50/5W reflected. 7.25" w x 2.5" h x 2.25" d. **\$89.99**



812B (left) Indicates forward and reflected power on 2M/220 MHz and SWR from 144-220 MHz, plus field-strength from 1-220 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d. **\$34.99**

816 Toroidal Meter (right) Indicates forward and reflected power from 1.8-30 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d. **\$34.99**

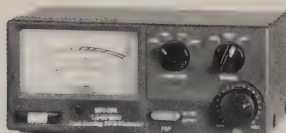


844 VHF/UHF SWR/Power Meter Covers 144 and 440 MHz, rated up to 200W. Easy to read multi-colored meter shows SWR/POWER in three ranges: 15, 60, and 200W.

Insertion loss is 0.3 dB or less. Measures only 3.75" w x 3" h x 1.25" d - great to take along for portable, HT or mobile rigs. **\$69.99**



We accept I.M.P.A.C.® Government Credit Cards



GrandMaster™ Easy-to-read 3.25" w x 1.25" h meter shows Forward & Reflected power in three ranges. 13.8V or 110V. Dim: 7.5" w x 3.125" h x 4.25" d.

870 (HF range) 1.6 to 60 MHz. Power ranges: 30/300/3000W. **\$124.99**

872 (HF/VHF range) 1.8 to 200 MHz. Power ranges: 5/20/200W. **\$94.99**

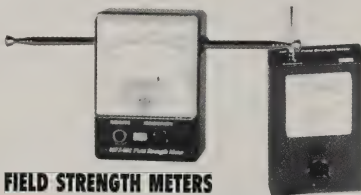
873 (VHF/UHF range) 125 to 525 MHz. Power ranges: 5/20/200W. **\$104.99**

874 (HF/VHF/UHF range) 1.8 to 525 MHz. Power ranges: 5/20/200W. **\$159.99**



267 Precision SWR/Wattmeter with Dry Dummy Load

Usable 1.8 to 60 MHz. Large 3 inch Cross-Needle meter shows peak and average forward and reflected power and SWR. Power: 300/3000W forward, 60/600W reflected; SWR 1:1 to 8:1; Built-in 100W 50Ω dummy load; Load to antenna switch; uses 12VDC formater lamp or 120VAC with 1312D, or 9V battery. Dim: 4" w x 3.125" h x 10" d. **\$139.99**



FIELD STRENGTH METERS

801 Super Compact Field Strength Meter (right)

You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand, only 2.375" w x 3.625" h x 1" d. Telescopic whip included. **\$19.99**

802 Bipolar Field Strength Meter (left) Dual whips are included. Dim: 2.4" w x 4" h x 1.5" d. **\$39.99**



MISCELLANEOUS

850 Line Voltage Monitor

(left) Plug into any 110V AC outlet and monitor the line voltage on an expanded/colored 95 to 135V AC scale. Measures 2.25" w x 2.25" h x 1.5" d. **\$19.99**

204B Antenna Bridge (right) Quickly optimize 1.8-30 MHz antennas for peak performance. Determine if an antenna is too long or short, measure resonate frequency and resistance to 500Ω. Built-in resistance bridge, null meter and RF source. Uses 9V battery. Dim: 4" h x 2" w x 2" d. **\$79.99**



224 2M FM Signal Analyzer™ Measure signal strength over a 60dB range, antenna gain, beamwidth, front-to-back ratio, sidelobes, feed-line loss. Check and set FM deviation. Plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters. Scope to analyze modulation wave forms, measure audio distortion, noise and peak deviation. Covers 143.5-148.5 MHz. Headphone jack, battery (9V) check function. 4" x 2.5" x 6.75" **\$149.99**



852 Power Line Noise Meter

A sensitive superhet AM receiver fixed tuned in the 135 MHz range. The telescopic, direction-finding dipole antenna is balun isolated to give a clearly defined null for pin-pointing noise sources. Wide range level meter. Plug in headphones and hear the noise or plug in a tape recorder for audio playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d. **\$99.99**



805 Pocket-Sized RFI Detector

Track down and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. Dim: 2.25" h x 4.75" h x 1" d. **\$79.99**

886 Pocket Frequency Counter

(left) Covers 1 MHz to 3 GHz; 300 MHz direct count with 0.1 Hz resolution; 10-digit LCD; Impedance: 50Ω (VSWR < 2:1); Sensitivity: 0.8mV @ 100 MHz, 7mV @ 300 MHz, 6mV @ 1 GHz, 100mV @ 2.3 GHz; 15 dBm input; Synchronous detector; RF signal bargraph; 4 selectable gates; 6-hour rechargeable NiCads; AC adapter. Dim: 2.75" w x 3.25" d x 1.25" d. **\$109.99**



888 Deluxe Frequency Counter (right) Covers 10 Hz to 3 GHz; Displays frequency of local signals on 10-digit LCD; RF strength bargraph; Detects 150 MHz signals up to 150; 300 MHz direct count with 0.1 Hz resolution; 4 selectable gates; Input: 50Ω (1-3 MHz), 1Ω (10 Hz to 50 MHz); 6-hour NiCad pack; AC wall charger; BNC connector; Telescoping whip. Dim: 2.75" x 4.25" h x 1.25" d; 9 oz. **\$174.99**



854 RF Current Meter - A top-mounted sense coil snaps over wires, cables, etc. up to 1/2" dia. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines; Six ranges, 30mA to 3A; Accurate from 1-30 MHz; Range with variable sensitivity control; Auto-off press-to-test power circuit; All-aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz. **\$99.99**



DUMMY LOADS

250 Versalod (right) 50Ω oil-filled dummy load providing low VSWR to 400 MHz. Rated at 1 KW CW or 2KW PEP for 10 min., with 500W power rating for 20 minutes and 200W CW (400W PEP) continuous. 7.25" h x 6.625" diameter **With oil \$59.99**

250X Same as above, but requires oil..... **\$39.99**

Dry Loads (left) Air cooled, non-inductive 50Ω resistor mounted in a metal housing. Full rated load for 30 seconds with derating curve to 5 minutes.

260C (HF/VHF) Rated at 300W. 1:1 SWR to 30 MHz, .5:1 to 650 MHz. 2.5" x 2.5" x 7"..... **\$34.99**

260CN With type "N" connectors..... **\$39.99**

264 (UHF) Performs from 1.3 to 650 MHz, usable to 750 MHz. Rated at 1.5KW for 10-seconds and 100W for 10-minutes. 3" w x 3" h x 9" d..... **\$69.99**

264N With type "N" connectors..... **\$79.99**



DVM-810 Digital Multimeter Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. 3.5 digits; 19 ranges; Measures voltage, current, resistance, transistor and diode; Battery included..... **\$9.99**



DVM-850BL Digital Multi-meter With auto polarity function manual ranging mode, data-hold function and 10A overload protection Measures DC current up to 10A, AC/DC voltage up to 600V, resistance up to 2MΩ. Diode, transistor and continuity test with buzzer. Backlit 3.5-digit LCD. 9V included battery. Protection holster and test leads. Dim: 2.6" w x 5.4" h x 1.18" d..... **\$19.99**



NONW24-BPHT

NightWave 2.4 Night Vision Optics Compact, easy, light, ergonomic design. Features a 2.4x image magnification that gives you a closer look at distance objects in dark environments. Perfect for short range night time viewing. A built-in infrared illuminator aids viewing in dark rooms. Soft touch, on/off and I/R buttons. Operates with two AAA batteries. Dim: 5.5" l x 1.9" w x 3" h; 9.2 oz..... **\$159.99**



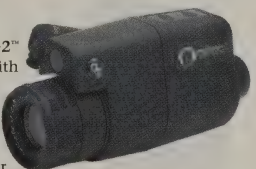
NODS-5 Night Owl

Discovery Pro™ Full-size night vision monocular with highest-grade 48mm camera quality objective lens providing unsurpassed resolution. It features an integrated infrared illuminator encased in an ergonomic body. Equipped with soft-touch controls, and power and IR indicators. 650° range of view; 5X magnification; 80mm focal length; 524° Field-Of-View @ 1000 yards; 10' to infinity focus range; 2 AAs. Dim: 7.6" l x 3.4" w x 2.9" h; 1.5 lbs..... **\$249.99**



NOXG-2

Explorer G2™ Cutting edge, with a technologically advanced night vision intensifier tube. Gives superior brightness and performance in low light conditions, and up to 2,300' long range of view. Compact, 100% waterproof - floats! Equipped standard with a powerful integrated infrared illuminator. 3.0X magnification; 612° FOV @ 1000 yards; 8' to infinity focusing range; Uses 3V lithium battery. Dim: 6.8" x 2.3" x 3.3"; 1.3 lbs..... **\$999.99**



Available Accessory for NODS-5 and NOXG-2

NOCA-42 Camera Adapter™ Allows photography with 35mm SLR cameras. Replaces rear ocular lens. Requires optional T-mount adapter..... **\$39.99**



TELESCOPES

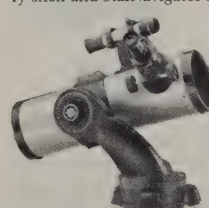
0705-04-01 ETX-70AT 70mm Achromatic Refractor (right) Portable for bird-watchers or naturalists. Observe major planets easily. 2 eyepieces (MA 9mm/39x, MA 25mm/14x); Multi-layer coated, tube assembly (D=70mm, F=350mm f/5); Internal flip-mirror for either straight or 90° observing. Fork mount - electric slow motion controls, setting circles and axis locks; Electronic control panel; 9-speed, dual-axis motor drive with Autostar™ control; Side-serial rate tracking; Requires 6 AAs; Includes tripod; 7 lbs..... **\$319.99**

3514-03-20 ETX-90AT 90mm Maksutov-Cassegrain (left) Ultra-portable; 8x25mm right-angle viewfinder; Series 4000 Super Plössl 26mm eyepiece (1.25"); Super multi-coated optical tube assembly (D=90mm, F=1250mm f/13.8); Internal flip-mirror for straight or 90° observing; Fork mount with electric slow-motion controls, setting circles and locks on both axes; Electronic control panel; 4-speed, dual-axis motor drive with Autostar control; 8 AAs needed; Tripod; 19 lbs..... **\$599.99**

0515-03-20 ETX-125AT 138mm Maksutov-Cassegrain Same as above with D=127, F=1900mm f/15 optical and 8x25mm right angle viewer. Includes AutoStar controller and tripod..... **\$999.99**



20211 NGC-70SP 2.75" f/11.7 Refractor Upgraded to 70mm aperture, includes manual Autostar-based GO TO operation and two upgraded Super Plössl eyepieces. Built-in, self-guided computer control with 1400-object database; Altazimuth mount with slow-motion control in altitude and azimuth; Oversize bearings on both axes for stability and precision; Includes series 4000DS SP26mm and SP9.7mm 1.25" eyepieces, 5 x 24mm viewfinder, hybrid diagonal, sliding aluminum tripod, accessory shelf and StarNavigator software..... **\$219.99**



20117 DS-2114-ATS Reflector AutoStar control has the lead in automated scope technology. Includes 9-speed controller and GO TO capability to 1400+ objects. With internalized motors, cords, gears and battery compartment. 114mm (4.5") diameter; f/8.8 ratio; 1000mm focal length; 2" focuser; Streamlined, single-tine fork altazimuth mount for smoother motions; MA25mm and MA9mm 1.25" eyepieces; 1.25" and 2" holders; 6 x 30mm viewfinder, rubber eyecup; StarNavigator software; Quick release, adjustable tripod..... **\$399.99**

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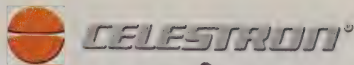
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4440 South Palatka Ave. Las Vegas, NV 89103 702-447-3114 1-800-634-6227



The Dobsonian reflector telescope is a relatively recent design that places all the performance of the Newtonian reflector design on a simple altazimuth mount. Celestron's Dobsonian design, the Star Hopper[®], is great for beginners because it's very easy

to use and quite economical, yet has advanced features even an experienced observer will appreciate. Glossy aluminum tube; BK-7 optical quality glass; Azimuth surface provides dozens of support points for smooth swivel motion; Variable tension clutch system for proper balance and smooth azimuth control; 9x50 Finder scope and quick release bracket; 2" focuser with 1.25" adapter; Variable tension altitude clutch with handle; Azimuth roller track bearing

10800 StarHopper[®] 8 8-inch (200mm) diameter Dobsonian; 1200mm focal length (f/6); 25mm Plössl eyepiece, 1-1/4" (48x)..... **\$399.99**

10110 StarHopper[®] 10 10-inch (250mm) diameter Dobsonian; 1250mm focal length (f/5); 32mm E-Lux eyepiece, 2" (39x); Cooling fan..... **\$549.99**

10112 StarHopper[®] 12 12-inch (300mm) diameter Dobsonian; 1500mm focal length; 32mm E-Lux eyepiece, 2" (47x); Cooling fan..... **\$999.99**



11015 Celestar 8 Engineered for optical performance in an affordable, full-featured Schmidt-Cassegrain scope. 8" (203mm) dia. aperture; 2032mm focal length; f/10 focal ratio; 6x30 finderscope; Standard 1.25" accessories including 25mm SMA eyepiece (81x), Star

diagonal and visual back; Fork mount and wedge pad; 41 lbs..... **Closeout \$999.99**

11022 NexStar 8i Equipped with electronic hand control, it allows manual slew across the sky in seconds or tracking of a star as the Earth rotates. The control also offers movement of the scope at 6 different rates and has a "double button" feature to increase slew speed without changing rates. Put the power of the newest software and expanded 40,000 object database to work with the optional computerized hand control. Capable of becoming a fully automatic GPS scope with optional accessories; 8" (203mm) dia., 2032mm focal length, f/10 focal ratio; 60"/sec. slew; Fully enclosed HD high speed motor; StarBright[™] coated, Schmidt-Cassegrain optics; Multi-coated, 1.25"/25mm Plössl eyepiece (81x); StarPointer finderscope; 1.25" star diagonal; AutoGuider and auxiliary ports; Requires 8 AA batteries..... **\$1379.99**



11034 NexStar 5i Schmidt-Cassegrain Telescope A breakthrough in GoTo design, featuring 5" aperture optics with StarBright[™] multi-coating, 1250 mm focal length and f/10 ratio. Features AutoAlign two-star alignment, a sky tour feature, a database of over 40,000 objects and easy to use integrated hand control. 127mm (5") dia.; 6 slew speeds; Fully enclosed, motors on both axes; Designated AutoGuider port; Auxiliary port; 8 AA batteries required; Accessories include 1.25" 25mm Plössl (50x) eyepiece, StarPointer finderscope, 90° 1.25" Star diagonal, 1.25" visual back and NexRemote control software; 17.6 lbs..... **\$995.99**



Ultimate in GoTo technology and astro-imaging, this 8" Schmidt-Cassegrain boasts an integrated GPS and electronic compass, combined with the Nex-Star[™] system. As it turns on, GPS/compass system automatically points to the first alignment star. Auto guider port; 2 auxiliary ports; PC port/RS232 compatible; GPS align mode; 2000mm focal length (f/10); 5-step multi-layer StarBright[™] coatings; 40mm NexStar Plössl (50x); 9x50 finderscope; Fastar compatible; External 12V DC; AC adapter..... **\$2299.99**



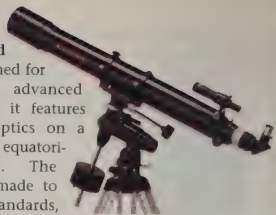
11053 NexStar 11 GPS A large aperture telescope with carbon fiber tube, integrated GPS and electronic compass. When turned on, the GPS/compass system automatically pinpoints exact location and points to the first alignment star. Offers a 40,000+ object database and storage for numerous, user-defined objects. It also features database filter limits for creating custom lists. Built with dual aluminum fork arms with carrying handles and a receptacle for computer go-to control. 279mm (11") dia. Schmidt-Cassegrain; 2800mm focal length; f/10 ratio; Premium 40mm (70x) 1.25" Plössl eyepiece; 9x50 finderscope; 9 slew speeds; Star diagonal; Visual back; RS232 and multiple data ports; AC adapter; Adjustable; 26-pound tripod; 65 lbs..... **\$3224.99**



22082 NexStar 80GT With an 80mm aperture and 3.25° field of view, the 80GT is capable of capturing the largest deep-sky objects. 80% brighter views than 60mm. This short-tube, 400mm focal length, refractor telescope has 16x (25mm) and 40x (10mm) magnification, 1.25" SMA eyepieces; f/5 ratio; "GO-TO" computer hand control; StarPointer[™] finderscope; 1.25" star diagonal; The Sky Level 1 CD; Adjustable aluminum tripod, tray; 11 lbs..... **Closeout \$349.99**

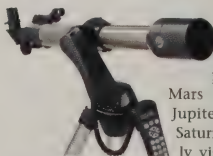
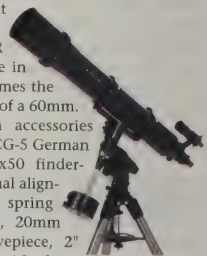
21016

Advanced C4-R Designed for the more advanced astronomer, it features exquisite optics on a heavy-duty equatorial mount. The optics are made to exacting standards, with high quality materials to ensure top performance. Offers a 63% increase in image brightness over 80mm models, with the larger aperture delivering incredible images of the moon, Saturn and its ring structure, Jupiter and its belts, and hundreds of deep-sky objects; including galaxies, nebulae and star clusters; 102mm refractor; 1000mm focal length (f/10); Mount with setting circles and slow motion back; 6x30 finderscope; 20mm (50x) 1.25" Plössl eyepiece; Adjustable aluminum tripod and accessory tray..... **\$399.99**



21019 C6-R Achromatic Refractor

An excellent choice for the serious astronomer, the C6-R is the largest telescope in its class with over 6 times the light gathering ability of a 60mm. It features premium accessories such as a heavy duty CG-5 German equatorial mount, 9x50 finderscope with bi-directional alignment screws and a spring loaded pivot support, 20mm (60x) Plössl 1.25" eyepiece, 2" focuser and 2x Barlow with photo adapter. The new German Equatorial mount has precision worm gears on both axes for extremely smooth stability. It also has a convenient latitude scale for easier alignment and an optional polar finder scope for precision alignments. A new heavy-duty tripod with more substantial legs offers excellent damping characteristics. 150mm (6.0") refractor; 1200mm f/8 focal length; Right ascension and declination setting circles; Slow motion control knobs on both axes; 1.25" star diagonal; The Sky Level 1 CD-ROM; Accessory Tray; 57 lbs..... **\$849.99**



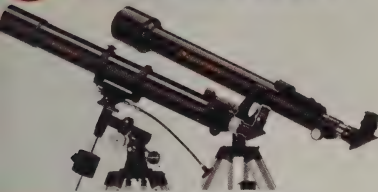
22062 NexStar 60GT Views of the lunar landscape, phases of Venus, Mars resolved as a disc, Jupiter and its moons, Saturn with its rings plainly visible, some deep sky

objects, plus terrestrial views. Comes with a fully-computerized hand control with database of over 4,000 objects. Includes three 1.25" eyepieces (35x, 70x and 175x). With a pre-assembled, adjustable tripod, the 60GT can be up and ready in a matter of minutes. A StarPointer finderscope with red LED makes centering easy. 60mm (2.4") dia. refractor; 700 mm focal length; f/12 ratio; 1.25" star diagonal; The Sky Level 1 CD-ROM; 9.5 lbs..... **C/O \$249.99**

Celestron Sky Map

Big, durable, 11.25" x 13.75" size, spiralbound, book. Contains basic star map and glow-in-the-dark star finder, seasonal star charts, constellations and characteristics of stars..... **CEL 93722 \$19.99**





21052 FirstScope 60AZ (top) All glass components, coated optics and smooth functioning mounts, with the added benefit of slow motion controls on the mount for easy adjustments. 60 mm (2.4") refractor; 700mm focal length, f/12; Slow motion control rod for smooth vertical adjustments; Sturdy adjustable aluminum tripod with tray; 1.25" 20mm (35x), 10mm (70x) eyepieces; 1.5x erect image eyepiece; 90° star diagonal (1.25"); StarPointer™ finderscope; Altazimuth mount; *The Sky Level 1 CD*; 7 lbs **\$99.99**

21086 FirstScope 80EQ (bottom) A good choice for the more serious beginning astronomer. The setting circles and slow motion controls allow for greater control in both locating and tracking objects, making this equatorial telescope one you can grow with as your observing interests expand. All glass components, German equatorial mount; 80mm (3.1") refractor; 900mm focal length, f/11; Equatorial mount with setting circles and slow motion adjustment cables; Sturdy adjustable aluminum tripod with acc. tray; 1.25" 20mm (45x), 10mm (90 x) eyepieces; 90° star diagonal (1.25"); StarPointer™ finderscope; *The Sky 1 CD*; 18 lbs **Closeout \$299.99**

31034 Tabletop 76 Small, but powerful, this ultra portable telescope is ideal for traveling and quick set-up. The handy but sturdy table top mount provides steady viewing.; 76mm (3") aperture; 600 mm focal length; f/8 focal ratio. Standard 0.96" accessories include: 4mm SR (150x), 20mm H (30x) and 2x Barlow eyepieces; 5x24 right-angle Finderscope; 5 lbs **C/O \$99.99**



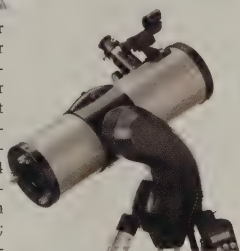
SPOTTING SCOPES

52200 60mm Pro Zoom Spotting Scope
This powerful spotting scope's large 60mm aperture makes it perfect for bird watching, photography, nature study, hunting or scenic observing. Carefully crafted, multicoated optics provide excellent contrast and clarity, and the standard lens hood reduces glare. Zoom and focus controls are exceptionally smooth, convenient and easy to use. The ability to zoom from 15 to 60 power with speed and precision means you'll be able to focus on and follow interesting subjects with ease. 24 feet near focus at 15 power; 15mm eye relief at 15 power; 30° field of view at 15 power **\$199.99**

31044 Firstscope 114 High quality, telescope featuring an optical system for bright, detailed views. The highly stable equatorial mount (CG-3) has setting circles and slow motion controls on both axes providing smooth, easy tracking. Built to provide years of performance, it comes with adjustable, aluminum tripod and accessory tray. 114mm (4.5") diameter aperture; 900mm focal length; f/8 ratio; StarPointer™ finderscope; 20mm (45x) and 10mm (90x) Kellner eyepieces; 1.25" focuser; 35° optical tube; Enhanced aluminum optical coatings; 1.5" rack and pinion focusing; 45 lbs **\$249.99**



31056 C6N Mounted on a rigid CG-4 equatorial mount. Counterweight, latitude scale, setting circles and slow motion controls on axes are standard. 150 mm (6.0") aperture; 1000 mm focal length; f/7 focal ratio; 1.25" accessories include: 20mm Plössl eyepiece (50x) and focuser; 6x30 finderscope; CG-4 EQ mount; Adjustable metal tripod, accessory tray; 41 lbs **\$399.99**



31142 NexStar 114GT Computer compatible Newtonian reflector with a compact design and exceptional light-gathering ability. 114 mm (4.5") diameter; 1000mm focal length (f/9); StarPointer™ finderscope; 25mm (40X) and 10mm (100X) SMA eyepieces; Motorized mount; Computerized hand controller with "GO-TO" database. Includes *Guide-Star™* software to use with your PC, fully assembled adjustable aluminum tripod; battery pack and *The Sky Level 1 CD-ROM* **Closeout \$399.99**

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LAB GRADE MICROSCOPES



4020 Dissecting Microscope This provides an introduction to the world of microscopy. It uses a 45° inclined, 360° rotatable monocular head which can move up and down on the metal pillar for small or large item viewing. The eyepiece is a 10x-18mm with a 4x-58mm objective, giving 40x power. The all-metal unit comes with a 60mm black-and-white viewing plate and smooth rack and pinion focuser **\$79.99**



4030 Educational Microscope Feature-packed and a great educational tool. It has a fully coated optical system, with H10x and H12.5x eyepieces and 35mm 4x, 10x, 40x objectives giving powers of (40x, 100x, 400x) 10x and (50x, 125x and 500x) 12.5x. This unit uses positive click stops on the turret, a five aperture diaphragm, a plano-concave 50mm mirror, and a smooth rack and pinion focuser with a safety rack stop **\$119.99**



4050 Biological Microscope Using fully coated optics, with a mechanical tube length of 160mm, its achromatic objective promises great observing sessions. The unit has a monocular 45° inclined, 360° rotatable head, positive click stop nosepiece with three objectives, 4x, 10x, 40x, a metal 110mm x 120mm stage and a five aperture diaphragm. It uses coarse and fine focus with electrical illumination with a tungsten 20w bulb and .65 single lens condenser. Powers are 40x, 100x and 400x using the 10x eyepiece **\$199.99**

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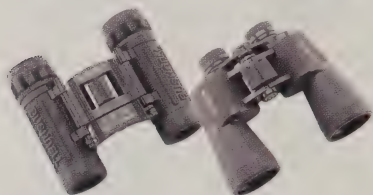


BINOCULARS

Powerview® Truly the "best of both worlds." Contemporary styling and design combined with legendary Bushnell quality and durability. The easy-to-hold and easy-to-use aspect of these binoculars also converge to make Bushnell Powerview binoculars an excellent value for the general and outdoor user. Powerview comes with soft rubber covering and the patented "Insta-Focus" system. Each binocular comes with a neck strap and carrying case.

13-1226 (left) Compact binocular with folding roof prism. Designed in camo. Features include: 12x25 magnification; 240 ft. field of view at 1000 yds.; 2.1mm exit pupil; 9.7oz. **\$29.99**

13-0430 (right) LiteVision™; 4x30 magnification; 650 ft. field of view at 1000 yds.; 7.5mm exit pupil; 7.5oz. **\$13.99**



13-1250 (right) InstaFocus®; 12x50 magnification; Porro prism; 265' field of view (1000 yds.); 4.2 mm exit pupil; Adapts to tripod; 27oz. **\$59.99**

13-2514 (left) Compact, folding binocular; 8x21 magnification; Roof prism; 375 ft. field of view at 1000 yds.; 2.6mm exit pupil; 7oz. **\$17.99**

Falcon is feature packed and value priced. Perfect for sporting events, sightseeing, nature study, backpacking, concerts and theater. The line includes the Bushnell patented InstaFocus® focusing system, coated optics, carrying case and strap.



13-0721 (right) Compact binocular featuring 7x21 magnification; Porro prism; 340 ft. field of view; 3mm exit pupil; 4.7oz. **Closeout \$16.99**

13-3410 (left) InstaFocus®; 7x35 magnification; Porro prism; 420' field of view (1000 yds.); 5mm exit pupil; Adapts to tripod; 21oz. **\$29.99**



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TELESCOPES

Voyager® Series
Engineered to exacting standards with exclusive features: the first astronomical zoom telescope; Penta mirror technology that yields right to left correct views of the night sky; High quality metal easy-track and metal equatorial mounts; Innovative adjustable aluminum tripods; Exclusive rotary power turret eyepieces.

78-2010 Penta mirror technology that yields right to left correct views; High quality metal easy-track and metal equatorial mounts; Exclusive rotary turret eyepieces; 100 x 4.5" reflector; Focal length: 500mm; 5 and 27mm Plössl eyepieces; Magnification: 18 and 100; 1.25" format eyepieces; Precision rack and pinion focuser; Convenient shoulder strap; Pre-assembled cradle mount; Camera and tripod adaptability. **\$199.99**



MISCELLANEOUS

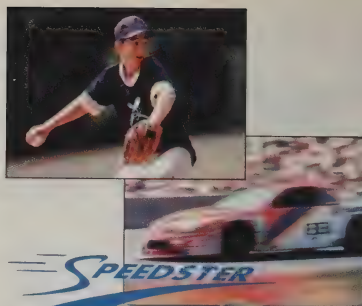
26-3150 NightVision Binocular (Generation 1) Great for wild-life observation, maritime navigation, security or camping. Built-in infrared illuminator for enhanced images in very low light. Powered by a single CR123A battery. Magnification x objective lens: 3.1 x 50mm; Range: 1.5 to 400 ft.; 79 ft. field of view @ 100 yds; Includes tripod mount. Dim: 7.9" x 6.45" x 2.7"; 40 oz. **\$499.99**



78-2061 Spotting Scope Extra power and performance for extended range viewing; Variable zoom eyepiece for great range; Fully coated optics reduce glare and enhance picture clarity; Rugged construction; Compact tripod; Hand carrying case; 20-60x magnification; 60 objective; 70/23 ft. field of view @ 1000 yards (20x), 24/8 ft. (60x); 3mm (20x) and 1mm (60x) exit pupil; 40 ft. close focus. Dim: 20.4"; 25 oz. **\$79.99**

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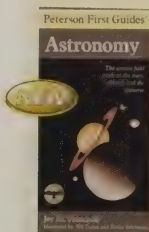


Bushnell makes it easy to accurately measure speed with the Speedster™ and the new Velocity™ speed guns. The Speedster™ uses digital technology and digital signal processing to provide accurate real-time measurements to ± 1.0 mph. It measures the speed of a baseball from 75 feet away and even has a stat-keeping mode. Additionally, the speed of larger objects like race cars can be measured from 1,300 feet. A more simplified, yet equally effective speed gun is the Velocity™ with its point-and-shoot operation. Like the Speedster™, it boasts ± 1.0 mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Both guns have a 6-110 mph range for baseball, softball and tennis. They also range 6-200 mph for auto racing.

10-1907 Speedster™ Speed Gun Compact with comfortable pistol grip; 4-row LCD graphics display; Two-way button pad; ± 1.0 mph accuracy; Displays current, last and average speeds; Tracks baseball statistics for up to 8 pitchers; Operates on 6 AA's. Dim: 3.5" x 7.2" x 4.3"; 13 oz. **C/O \$199.99**

10-1911 Velocity™ Speed Gun Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on (2) "C" batteries. Dim: 4.3" x 8.4" x 6"; 13 oz. **\$99.99**

Peterson First Guides® Astronomy



The concise field guide to the stars, planets, and the universe. Photographs and clear descriptions of the stars, the planets, the sun, the moon, comets, meteors, black holes and galaxies. Information on how, and where to find them in the sky. Full-color maps showing the positions of the stars during the year. Beautiful artwork. 128 pages. **CEL 93728 \$9.99**

SECURITY ITEM

PE-319 Pedometer with Personal Security Stay at ease while exercising away at home. This pedometer features a 120dB panic alarm for personal security and emergency. Displays elapsed workout time, distance walked and a 12/24 hour clock on its backlit 2-line LCD display. **\$19.99**

ALL HAZARDS WEATHER RADIOS

WR-102 Portable S.A.M.E. Weather Radio A handheld all-hazards weather radio that receives and displays alerts, watches and warnings that apply only to a local area using S.A.M.E. technology; Monitors 24-hour weather forecasts and alerts; Scans all NOAA channels; Monitors U.S. emergency alert system with auto activation; Dual LED power/alert indicator; Digital clock and alarm with snooze. **\$29.99**

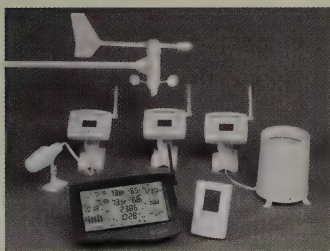


WR-196T Desktop S.A.M.E. Weather Radio AM/FM radio with ten memory presets; Digital tuning, including seven NOAA weather channels; Dual LCD display for clock and dot-matrix text message; Automatic audible and visual alert activation plus blinking LED warning; Standby mode to mute speaker; Digital clock, calendar, alarm, and 5-120 min. sleep timer; Operates from 3 AA's or AC adapter. Dim: 6.75" h x 5.25" w x 0.875" d; 0.75 lb. **Closeout \$49.99**

WEATHER STATIONS

RGR-122 Long Range Rain Gauge Self-emptying and provides cumulative and daily precipitation totals for up to nine days. Its wire-

less, long range capability allows the collector to be placed up to 300 ft. from the main unit. The collection data is broadcast at 433 MHz to the indoor base unit and displayed on an attractive easy-view 3.5" h x 1.5" d x 2.5" w LCD console. Includes indoor temp. gauge. Requires 2 "AA" batteries in both collector and main units **\$44.99**

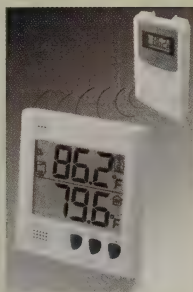


WMR-968 Cable Free™ Weather Station Innovative wireless outdoor sensors with 300 ft. range operates on solar power for simple installation and sophisticated ease. Track and record over 20 separate weather conditions by a press of the touch-sensitive jumbo LCD display screen. **\$299.99**

WMR-112A CableFree™ Weather Station Uses innovative, wireless, outdoor sensors for simple installation. Operates on 433 MHz at a 300' range from remote sensors. Measures outdoor temperature (-4°F to 140°F) and relative humidity (25%-95%); Measures indoor temperature (0°F to 122°F), relative humidity (25%-95%) and barometric pressure (17.27 to 31.02 in. Hg); Indoor touch-screen console, wall mount or desktop; AC adapter; Requires 12 "AAA" and 6 "AA" batteries (not included). Dim: 7.75" h x 3.5" w x 1.4" d. **\$249.99**

THERMOMETER

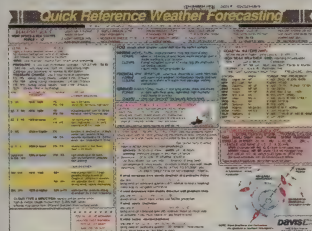
EMR-812A Cable Free™ Thermometer The latest in radio frequency technology! This Cable Free™ thermometer with jumbo display shows you the indoor temperature and the temperature from up to three remote locations. Includes one easy-to-install remote temperature sensor that can be placed up to 90 feet from the main unit - with no wires to install anywhere! 433 MHz operation; High/low memory and temperature alarms; Choose and change between Celsius and Fahrenheit; Includes one wireless sensor. **Closeout \$29.99**
THR-138 Extra Sensor **Closeout \$19.99**



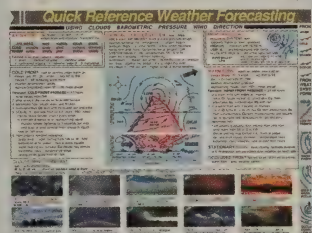
DAVIS

Weather Forecasting Quick Reference Card

Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in. **DAV 0131 \$9.99**



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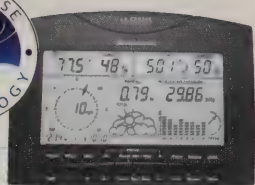
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WEATHER STATIONS



WS-2010 Professional Wireless Weather Station Indoor temperature (32°F to 158°F), humidity, and barometric pressure (from remote); Outdoor temperature and humidity (wireless, solar powered); Min/maximum data for all readings with time and date recorded; Air pressure with 24-hour bar chart history; Forecast icon and pressure trend indicator; Wireless rain gauge (solar powered) tracks rainfall amount for last hour, last 24 hours, total; Wireless wind-gauge (solar powered) tracks speed and direction - up to 330° range; Includes wind-gauge, rainfall sensor, indoor temperature/humidity sensor, and outdoor temperature/humidity sensor; Receiver and sensors require alkaline batteries (not included); Free standing or wall mount. Dim: 8.5" w x 1.25" d x 6.5" h (receiver)..... **\$389.99**



WS-2010-13 PC Interface for WS-2010 Wireless Weather Station Connects to serial port; Receives and stores all data; Included software calls in data and removes from interface, storing in a data file; Without computer connected, can act as a data logger, storing several days collected data; Selected data can be exported as an ASCII file for use in other WIN 95/98 programs (Excel, etc.); Generate graphs, charts, and data lists; Operates on 2 AA batteries (not included)..... **\$129.99**

WS-2310

Wireless/Wired Weather Center

Direct cable, or up to 80 ft. away, wireless; WWVB-controlled clock shows day, date, minute, second, alarm, and time zone; Weather forecast with animation; Indoor/ outdoor temperature and humidity, wind chill, dew point, rainfall (24 hrs, 1 hr, and total); Wind speed (m/s, knots, bft, km/h, and mph) and direction with trend; Barometric pressure; Alarms: time, storm warning, weather (air pressure, temperature, humidity, rainfall, wind speed, and wind direction); Stores up to 175 sets of weather data in memory for weather analysis and graphical display on PC (software CD-ROM and cables included); Uses three AA batteries (not included) or included AC wall adapter ... **\$249.99**

See the Product Locator for other Weather Instruments & Weather Radios



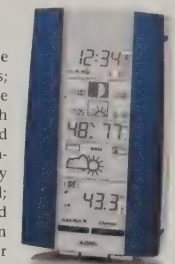
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WS-8025AL Sun/Moon Wireless Weather Station Indoor temperature (°F or °C) and humidity (RH%); Remote temperature (°F or °C) and humidity (RH%); Can receive as many as three remotes (one TX4U included); Calculates sun/moon rise/set based on entered city (choose from 250 North American cities); Barometric air pressure with 30-hour history chart; Forecast icon, based on changing air pressure; Forecast is about 75% accurate for 12-20 hours; Current moon phase; Wall-mount or fold-out stand; Radio-controlled time and date; Temperature alarm for remote temperatures; Storm warning indicator; 12 or 24-hour time modes. Dim: 7.5" w x 0.8" d x 10" h..... **\$159.99**



WS-9016U

Sun/Moon Wireless Weather Station WWVB-controlled time with manual settings; Calendar display, date, time zone; Alarm function with adjustable snooze; Sun and moon data for 45 U.S. locations; Weather tendency and air pressure trend; Indoor temperature and humidity display; Minimum and maximum outdoor temperature record with time; Receiver and remote require alkaline batteries (not included). Dim: 4" w x 1.4" d x 6.75" h **\$79.99**



WS-7038UF

Rain Gauge Receives rain data from included, remote, self-emptying, rainfall gauge located up to 80 ft. away; Shows rainfall for past hour, 24 hours or last rain period until manually reset; Rainfall history: view last 7 days, weeks, or months and scroll period by period on graph; Rain alarm function; Wall mount or free-standing with removable stand; 12/24-hour time mode, manual time set; Receiver/remote use 2 AA alkaline each (not included). Dim: 3.5" w x .75" d x 4.2" h (receiver)..... **\$59.99**



WS-7075UF

Wireless Forecast Station Indoor/remote temperature, indoor humidity; Forecast icon, based on changing air pressure, about 75% accurate for 12 to 20 hours; WWVB controlled 12/24-hour time, dual time alarms with snooze; Receiver and remote require alkaline batteries (not included); Wall mount or free-standing with removable stand; 80 ft. remote sensor range Dim: 4.5" w x 1.0" d x 7.0" h..... **\$59.99**



WS-7013U

Wireless Temperature Station In-door/remote temperature with minimum and maximum memory (time recording for remote temperature). 12 or 24 hour mode, manual set time; Wall mount or free-standing (removable); Receiver and remote use 2 AA alkaline each (not included); Up to 80 foot remote sensor range. Dim: 2.75" w x 4.25" h x 1.0" d (receiver)..... **\$24.99**



OTHER WEATHER PRODUCTS

WT-5431

Projection Alarm with Remote Temperature Shows 12 or 24-hour time, dual alarm with snooze, WWVB controlled; Month, day, date; Time zones, GMT to 12 hours; Indoor and remote temperature; Projects from 3 to 10 feet onto wall or ceiling with adjustable rotation, intensity; auto focus; Backlit display when a button is pressed; Wall transformer (included) or 3 AA alkaline; remote requires two AAA's (not included). Dim: 5.25" w x 3.5" h x 1.25" d..... **\$49.99**



IR-101

Infra-Scan Infrared Thermometer - Measure temperature in a fraction of a second without touching the object being measured. Useful for contact-free measurement of stationary and moving objects, finding cold spots in a home, checking food stuffs, heating and air conditioning, hot components (machinery, engines, etc.); Single key operation; Back-lit LCD; Temperature range: -4°F to +572°F; Uses 4 LR-44 button cells (included). Dim: 2.2" w x 0.9" d x 4" h..... **\$49.99**



WS-8117U-OAK

Atomic Clock, Wireless Indoor/ Outdoor Thermometer (oak finish). Extra-large digital displays for readability. Extend the

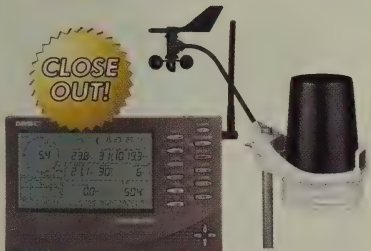
foldout stand for use on table or shelf. Fold in for wall mounting (wireless remote sensor wall mount only). Displayed data in initial mode includes time (hour/minutes), month, date, weekday, in/outdoor temperature. Three other modes display seconds digitally in place of weekday, in or outdoor temperature. Sets automatically to WWVB radio signal (manual also possible) and synchronizes to U.S. atomic clock nightly; 12/24-hour time; Alarm setting, snooze; Calendar with weekday abbreviations (english, french, or spanish); 13 time zones; Daylight saving time option; 32° to 122°F (0° to 50°C) indoor temp.; -21.8° to 140°F (-29.9° to +59.9°C) outdoor temp.; 10-second indoor (5-minute outdoor) checking interval; 82 ft. maximum transmit range; Requires 4 AAs (not included), lasting about 1 year. Dim: 11.4" w x 7.5" h x 0.98" d (clock); 1.57" w x 5.04" h x 0.9" d (sensor)..... **\$39.99**

DAVIS

WEATHER STATIONS

Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC. Standard weather stations assemble quickly with plug-in cable connections. Cables are connected to the console through a junction box with 8 ft. cable. Console includes AC adapter with battery backup (not included).

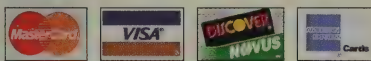
All stations include, time in 12/24-hour format, date, U.S. and metric measure, highs and lows, calibration of some functions for increased accuracy under difficult conditions, sequential scan and display of readings, alarms for selected functions, console with LCD and reversible base (desk, shelf, or wall), and anemometer with 40 ft. cable.



6150 Wireless Vantage Pro – Offers forecasting, on-screen graphing, and more. Monitors barometric pressure, temperature, humidity, rainfall, wind speed and direction. Quick view icons show the forecast at a glance – sunny, partly sunny, cloudy, rain or snow, while a moving ticker-tape display gives more details. An innovative integrated and solar powered sensor suite combines rain collector, temperature, humidity sensors, and anemometer into one package – making setup easier than ever and improving performance and reliability. Typical wireless range is up to 150-200ft. For improved accuracy, the temperature and humidity sensors are housed inside a shield which protects solar radiation and other sources of radiated and reflected heat. **Closeout \$499.99**

NEW

6152 Wireless Vantage Pro2 – Looks the same as the original Vantage Pro above. But it's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance – sunny, partly sunny, cloudy, rain or snow – while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package – making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat. **\$539.99**



We accept I.M.P.A.C.® Government Credit Cards



7440 Weather Monitor II
Shows all weather monitoring functions and clock on an back lit, 1.875" x 4.375" LCD display. Temperature readings of -50 to 140°F (outside), 32° to 140°F

(inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to -134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends. Dim: 5.25" x 5.875" x 3" **\$269.99**

7859 External Temperature/Humidity Sensor For 7440. Measure outside humidity, dew point and temperature. Includes 40 ft. cable. **\$119.99**

7425 Weather Wizard III
Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3" **\$179.99**

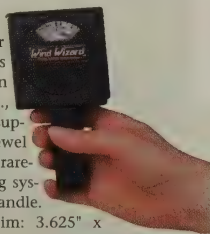
7852 Rain Collector II For 7440, 7425 and 7415. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable **\$69.99**

7400 Perception II – Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time, and barometric change **\$129.99**



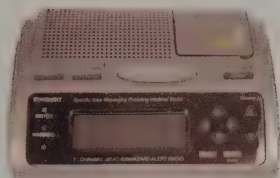
0276 Windscribe
Ultrasonic Wind Meter – Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz **\$99.99**

0281 Wind Wizard™
Wind Speed Indicator
Accurately measures speed from 0-60 mph in miles/hour, meters/sec., and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. No batteries needed. Dim: 3.625" x 2.875" x 1" folded; 2.5 oz **\$49.99**



MIDLAND

WEATHER RADIOS



WR-300 Specific Area Message Encoding Weather Radio – 20 programmable counties; AM/FM and 7-channel weather radio; Time and alarm clock with full date display; 10 memory channels; Ability to add up to 8 alerts (i.e. AMBER); Ability to remove alerts (i.e. flood - if you live on a hill); Choose between single, multiple, or all-county codes; Uses analog and digital signaling **\$49.99**



74-200 Digital Weather/Hazard Alert Monitor – Provides 24-hour National Weather Service information from 7 NOAA channels for maximum capability up to 50 miles. Eight-character LCD displays up to 56 types of S.A.M.E. watches or warnings and monitors status of user selectable warning system. Weather Command button switches from alert mode to full monitoring. Clock displays time and date and has alarm functions. Telescoping antenna, external antenna input and alert device output jacks. 9-14VDC and 117VAC with supplied adapter. Accepts 9V battery for backup during outages. Dim: 7.75" w x 2" h x 5" d; 18 oz **\$49.99**

GRUNDIG



FR-100 Power Failure Light, AM/FM Radio and Clock Alarm – Designed to stay plugged into the wall for continuous charging and to be ready for any emergency. The built-in LED light and AM/FM radio automatically turn on when the electricity goes out. Also serves as a convenient and functional plug-in radio and light for any room in the home or office. Operates from a rechargeable battery that provides enough power for 12-16 hours of LED light use, or 4-8 hours of radio use. Dim: 3" w x 5" h x 1.4" d; 10 oz. **\$29.99**

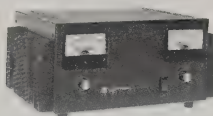
DAVIS SOFTWARE

7862 WEATHERLINK® Links a PC and PerceptionII, Weather WizardIII, or Weather Monitor II. Create graphs, calculate average conditions, generate summaries, analyze trends, etc **\$149.99**

7866 Same as above, for Mac... **Closeout \$69.99**

ASTRON POWER SUPPLIES

The Low Cost Alternative...



105-125V AC input, 13.8V DC output; Internally adjustable from 11-15V; Electronic regulation with fold-back current limiting and crowbar overvoltage protection; Heavy-duty heat sink; Three-wire cord; One-year warranty; Made in U.S.A.

Separate Volt and Amp meters on RS-20M, 35M, 50M and 70M. Separate Volt and Amp meters, plus Voltage Adjustment (2-15V DC) on VS-20ML, VS-35M and VS-50M. The RM-35M, RM-50M and RM-60M are Rack Mount models, plus Separate Meters.

Model	Cont. Amps	ICS Amps	Size (in.) H W D	Shipping weight	Price
RS-7A	5	7	3.75 x 6.5 x 9	9	\$59.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11	69.99
RS-12A	9	12	4.5 x 8 x 10.75	13	79.99
RS-20A	16	20	5 x 9 x 10.5	18	99.99
RS-35A	25	35	5 x 11 x 11	27	149.99
RS-35A/220V	Same as RS-35A but 220V input				169.99
RS-50A					219.99
RS-70A					259.99

With separate Volt & Amp meters

RS-20M	16	20	5 x 9 x 10.5	18	119.99
RS-35M	25	35	5 x 11 x 11	27	169.99
RS-50M	37	50	6 x 13.75 x 12	46	239.99
RS-70M	57	70	6 x 13.75 x 12	48	289.99

Adjustable output; separate Volt & Amp meters

VS-20ML	16	20	5 x 9 x 10.5	20	139.99
VS-35M	25	35	5 x 11 x 11	29	189.99
VS-50M	37	50	6 x 13.75 x 11	46	259.99

Rack mount; separate Volt & Amp meters

RM-35M	25	35	5.25 x 19 x 12	38	249.99
RM-50M	37	50	5.25 x 19 x 12	50	279.99
RM-60M	50	55	7 x 19 x 12	60	359.99

POWER SUPPLIES WITH ADDED FEATURES

RS-4L - Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. Dim: 3.5" h x 6.5" w x 4.25" d; 6 lbs.... **\$49.99**

RS-12S - Has a built-in front mounted speaker. Rated 13VDC @ 12A peak, 9 Amps continuous. Dim: 4.5" h x 8" w x 9" d; 13 lbs.... **\$89.99**

SWITCHING POWER SUPPLIES

Small & Lightweight!

SS-25 - 12V DC, rated 20A continuous, 25A ICS. Dim: 3" h x 7" w x 9.5" d; 4.2 lbs... **\$109.99**

SS-25M - Same as above but with Volt and Amp meters..... **\$129.99**

SS-30 - 12V DC, rated 25 Amps cont, 30 Amps ICS. Dim: 3.75" h x 7" w x 9.5" d; 4.5 lbs... **\$119.99**

SS-30M Same with Volt/Amp meters.... **\$139.99**

POWER INVERTERS

N2412-12 28V Aircraft - Converts 22-32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into a 28V battery for 12V..... **\$49.99**

N2412-24 Same as above, rated at 20A .. **\$79.99**



DIAMOND ANTENNA



GZV-4000 Switching Mode DC Power Supply with Built-in Speaker - 120V AC input; Variable output 5-15V DC with convenient center detent at 13.5V DC; 40 Amps continuous rating @ 100% duty cycle; Over temperature, overload, short-circuit protection with current foldback at approximately 42 Amps; Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear; cigarette lighter jack on front; Filtered AC line. Dim: 8.25" x 13" x 4.5"; 8 lbs..... **\$179.99**

DAIWA

industry co. ltd.



SS-505 50 Amp Power Supply - Recommended for higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. This is a switching-type with a low-noise design that puts any noise pulses away from ham bands making it one of the quietest. There are high current, heavy duty binding posts on back panel and a lesser rated cigarette lighter plug socket, and spring-loaded connectors on front. Light weight and conveniently portable with carrying handle and protective cushions. Front panel adjustable 5-15VDC; Rated 50 Amps continuous with cut-off protection at 56 Amps; Dual purpose Amp/Voltage meter; Automatic cooling fan. Dim: 9" w x 5" h x 12.5" d; 8.25 lbs..... **\$399.99**



SMALL POWER SUPPLIES

38-384 Light-duty DC Supply (pictured) Input: 115 V AC; Output: 13.8V DC regulated @ 4A; Front panel binding posts; LED indicator, fuse protection. Dim: 7.75" d x 4.75" w x 3" h; 5.5 lbs..... **\$39.99**

38-305 AC Adapter Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a max. current rating of 500ma. Multiple application plugs and 9V snaps fit most devices..... **\$9.99**

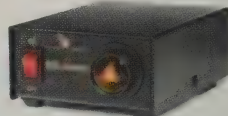
38-312 Regulated AC Adapter Multi-voltage with multiple plugs and 9V snaps. Selectable 1.5, 3, 4.5, 6, 7.5, 9 or 12V DC regulated with a maximum current rating of 1200ma. to operate a wide range of battery operated devices..... **Closeout \$19.99**

SAMLEX AMERICA

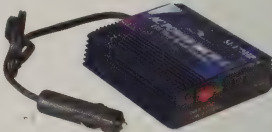


SWITCHING POWER SUPPLIES

SEC-1223 Low Cost, Base Station Power Supply for HF, UHF & VHF Transceivers - Switching mode design; 23 Amp rating; Current limiting; Short circuit protection; Overvoltage protection; Anodized black chassis and powder coat wrinkle black steel cover; Includes fan; Input: 110-120VAC, 200-240VAC; 4.9A input current; 13.8VDC output voltage; 23A output (24 Amps maximum); 3-year warranty. Dim: 7.2" w x 8.7" d x 2.2" h; 3.3 lbs... **\$99.99**



SPS-1204UL Switching Supply - Small and lightweight, provides highly regulated DC power. Cigar lighter output socket on front panel and wire terminals on rear. Over-voltage protection; Current limiting, Illuminated On/Off switch. UL and cUL approved; 110-125 VAC input; 13.2 VDC output @ 3.5 Amps. Dim: 2" h x 4" w x 6.3" d; 2 lbs.... **\$29.99**



DC to AC INVERTERS

SI-175HP 175 Watt 12VDC-110VAC Inverter Useful anywhere when 110VAC isn't available - boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter; 10-15VDC input; 115 Volts RMS output; 175W (continuous), 350W (surge); Dim: 1.6" h x 4.7" w x 5.4" d; 1.8 lbs..... **\$29.99**

SI-400HP 400W

12VDC to 115 VAC Inverter - Similar to the SI-175HP, but higher (400W) rating. Cigar lighter plug input connector and battery clamp included; Input Voltage: 10-15 VDC input; 115 Volts RMS



output; 400W (continuous), 800W (surge). Dim: 2.4" h x 6.3" w x 6.3" d; 2.9 lbs..... **\$49.99**

FCP-1000 12V-1000mA Adapter/Charger For operating or charging cell phones. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC output; 1000mA, 19W output current. Dim: 2.25" h x 2.75" w x 4.25" d; 1 lb..... **\$9.99**



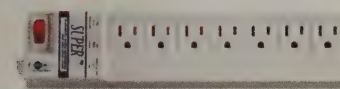
For more Power Supplies please check pages 84 & 85



Power Pocket – Portable power for emergencies, ham-fests, hiking, etc. The 12V @ 2A/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6-8 hours, with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Compact carrying case with belt loop and shoulder strap. Dim: 3.5" w x 1" d x 6.5" h; 30 oz..... **\$66.99**



SURGE SUPPRESSORS

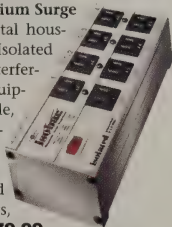


SUPER-7 – For spike suppression and noise filtering. Provides 18,000 amp surge suppression, and RFI/EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators..... **\$19.99**

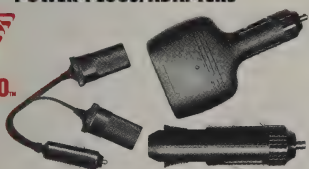
SUPER-7+TEL Same as above with 6 outlets and fax/modem protection for modular jacks.. **\$29.99**

ISOBAR-8 ULTRA Premium Surge Protector

– Rugged all metal housing won't break or burn. Isolated filter banks eliminate interference between connected equipment. Massive 1,200 joule, 96,000 amp spike suppression; Diagnostic alarm system indicates wiring faults, protection circuitry and power line status; 8 outlets, extra long 12 ft. cord..... **\$79.99**



POWER PLUGS/ADAPTERS



P-212 2-Outlet Cigarette Plug Adapter (left) Use two 12V accessories from 1 outlet..... **\$4.99**

P-212B Dual Cigarette Socket (top right) Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse..... **\$8.99**

P-12V 2-Contact Cigarette Plug (bottom right) Solder type with strain relief and grip end... **\$1.99**

P-12V Cigarette Plug Cigarette lighter plug with leads..... **\$1.99**

P-12X Cigarette Lighter Plug Easy to use solderless plug. Crimp wire to terminals..... **\$1.69**

633 – Charges 2 or 4 NiCad and NiMH AAA, AA, C, D (charging 2 at a time) and 1 or 2 9V cells; Ultra-fast, safe Constant Pulse Current charging; IC detects both +DV and -DV, and monitors the voltage level during the charging process. Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Ends with final trickle charge. 120 VAC or 12 VDC..... **\$24.99**

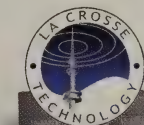
UNI-SOLAR



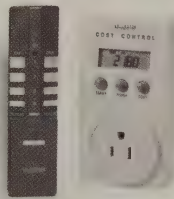
SmartCharge flexible solar panels for advanced solar battery charging. Sized to charge and maintain 12V batteries. Flexible and durable design makes them very convenient to use.

FLX-5 SW Solar Panel – Ideally, provides up to 2A-hours a day and automatically compensates for battery self-discharge. For hams, boaters, RV owners and other battery users. Perfect for vehicles that stay idle for extended periods. Lightweight; 10" x 20"; For lower use applications; 0.54 lbs. **\$89.99**

FLX-32 32W Solar Panel – Heavy duty, provides more than 12A-hours (ideally) a day. Meets demands for portable ham operations, lighting, radios, stereos, fish finders, etc. Use multi. units for more capacity. Dim: 17 x 60 in.; 2.14 lbs **\$269.99**



RS-204U



3362U

RS-204U Remote Control Outlet System – Now control multiple outlets by Remote Control. Units plug into existing outlet to turn On/Off lamps, tools, appliances, etc. – up to 20A. Operates up to 80', even through walls! Includes remote and 2 outlets. Uses 2 AAA batteries (not included) ... **\$29.99**

3362U Power Cost Controller – Provides monitoring of electricity consumption. Approximately 3W to 1800W range, ideal for use with a variety of 120VAC 60 Hz (15A) appliances. Cost monitoring and forecasting; Instantaneous power consumption (Watts); Maximum load power (max. Watts); Total kWh consumption. Includes LR-44 button cell battery **\$29.99**



Intelligent Charger



CHARGERS



MH-C888 Universal Drop-In Rapid Charger and Conditioner – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8 to 12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply, for home, office and 12V portable use **\$59.99**

MH-C777 PLUS II Smart Universal Charger and Analyzer/Conditioner – Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time..... **\$89.99**



MH-C204W One Hour Worldwide Travel Conditioning Charger

Globally certified and compliant with an integrated 100 to 240V 50/60 Hz switching adapter. Revives and conditions

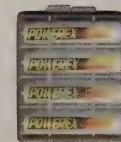
poorly performing batteries. Four unique charging phases: Startup charge; Rapid charge; Top-off charge and Maintenance charge. Batteries may be left in for an extended periods without overcharging. Recharge (2) AA/ AAA batteries in around one- hour. Recharge (4) AA/ AAA batteries in about two-hours. Compact, lightweight (4 oz.)..... **\$29.99**

MH-C124S Slow Charger

Charges one, two, three or four AA/AAA Ni-MH and NiCad batteries at at gentle charging rate that will maximize battery life. Charge time is 10 to 26 hours depending on battery type. Includes wall adapter. Batteries not included.... **\$9.99**



RECHARGEABLE BATTERIES

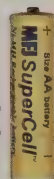


MAHA Rechargeables

4-AA-230 – 4 pack of 2300mAh RECHARGEABLE AA NiMH batteries in a plastic carrying case **\$13.99**

MFJ Rechargeables

92AA01 – 1300mAh NiMH AA Batteriesea. **\$2.99**
92AA10 (10-pack)..... **\$24.99**



MFJ Switching Power Supplies

Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these 25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!

No RF hash . . . Super lightweight . . . Super small . . . Volt/Amp Meters . . .



4125

Small & Lightweight – MightyLites™ are so light and small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky supplies.

Lightweight – The 25A MightyLite™ only weighs 3.7 pounds – 5 times lighter than an equivalent conventional power supply. And, the 45A model weighs just 5.5 pounds!

No RF hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

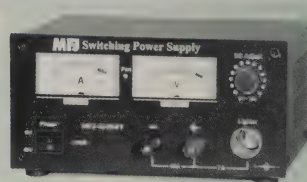
Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.



4225MV

Worldwide Versatility – Switchable AC input voltage for 85-135 or 170-260VAC.

Mighty Features – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way Heavy Duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual three inch illuminated meters monitor load voltage and current. Internal fan.



4245MV

Three models to choose from . . .

4125 (left) Basic, no metering. 25A maximum or 22A continuous. Dim: 5.5" x 2.5" x 2.5"; 3.5 pounds **\$99.99**

4225MV (center) 25A max. or 22A continuous. Dim: 5.75" x 4.5" x 6"; 3.7 lbs... **\$139.99**

4245MV (right) 45A max. or 40A continuous. Dim: 7.5" x 4.75" x 9"; 5.5 lbs .. **\$189.99**

4103 Miniature Switching Power Supply – Delivers up to 40W (13.8 VDC @ 2.89A), RFI and Hash FREE. Only 4-1/8 x 2-5/8 x 1-3/8 in., weighs 10 oz. Ideal for the FT-817 and other QRP rigs. Input: 100-240 VAC @ 47-63 Hz. Over voltage, over current, and over temperature protected. Includes a DC output cable with a 2.1mm x 5.5mm plug that fits most MFJ, other ham accessories and QRP rigs. Adapter cable for the Yaesu FT-817 is included **\$39.99**



MFJ 35/30 Amp Adjustable Regulated DC Power Supply

Massive 19.2 pound transformer . . . No RF hash . . . Adjustable 1 to 14 VDC . . .

Super Heavy Duty – This conventional power supply is excellent for powering all types of amateur transceivers and accessories. A massive 19.2 pound transformer allows this power supply to easily deliver 35A maximum and 30A continuous. It's highly regulated with load regulation better than 1% and ripple voltage less than 30 mV.

Fully protected – Over voltage, fold back and short circuit protection. A whisper quiet fan keeps components cool by increasing speed as load increases.

Adjustable Voltage – Front panel control allows adjustment from 1 to 14 VDC with a convenient detent set at 13.8V. Dual front-panel meters monitor voltage and current.

Versatile – There are three sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, two pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories.

Size – 9-1/2 x 6 x 9-3/4 inches; 20.6 lbs. /



4035MV **\$139.99**

MFJ's No Matter What™ One Year limited Warranty

MFJ will repair or replace (at MFJ's option) these products for 1 year.

MFJ High Current Multiple DC Power Outlets

Distribute power to transceivers and 6 or more accessories from your 12 VDC power supply



1118 Deluxe Multiple DC Power Outlet The most versatile and highest current rating. Connect to a 12VDC source and distribute power to 2 transceivers and 6 or more accessories. Features 2 pairs of Super Heavy Duty 30A, 5-way binding posts, fused RF bypassed and rated 35A total draw. 6 pairs of 5-way binding posts for accessories rated for 15A total draw. Master fuse, On-Off switch with power LED. Built-in 0-25 VDC voltmeter, 6 ft. of 8-gauge, color-coded cable with ring tongue terminals. Binding posts are spaced for standard dual banana plugs. Dim: 12.5" x 2.75" x 2.5" **\$74.99**



1116 Similar to the 1118 but does not have 30A posts. Has "Power On" LED and 0-25 VDC voltmeter. Rated at 15A total draw **\$49.99**



1117 Similar to the 1118 but no meter, power LED or On-Off switch. Powers up to 4 radios at the same time. Two 35A single posts and one 35A dual post. Dim: 8" x 2" x 3"; Fits almost anywhere! **\$54.99**



1112 Similar to the 1116 but no On-Off switch, power LED, voltmeter or fuse **\$34.99**

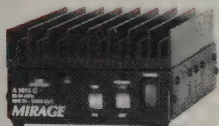
www.mfjenterprises.com



We accept I.M.P.A.C.® Government Credit Cards

MIRAGE Power Amplifiers

**2 Meters
All Mode
160W • 200W
300W**



B-5018G 160W output with 50W input. Requires 17 to 24 amps @ 13.8VDC. Low Noise GaAsFET Preamplifier. Dim: 5.5" w x 3" h x 12" d **\$299.99**

Power Curve – typical for the B-5018-G												
IN	0.5	5	8	10	15	20	25	35	50			
OUT	---	52	99	119	125	130	135	145	160			

B-2518G 160W output with 25W input. Low noise GaAsFET preamplifier. Requires 17-24 Amps @ 13.8VDC. Dim: 5.5" w x 3" h x 12" d **\$299.99**

Power Curve – typical for the B-2518-G												
IN	0.5	5	8	10	15	20	25	---	---			
OUT	5	56	91	111	135	153	160	---	---			

B-1018G 160W output with 10W input. Low noise GaAsFET preamplifier. Requires 17-24 Amps @ 13.8VDC. Dim: 5.5" w x 3" h x 12" d **\$369.99**

Power Curve – typical for the B-1018G												
IN	0.5	5	8	10	---	---	---	---	---			
OUT	30	150	155	160	---	---	---	---	---			

B-2530G 300W output with 25W input. Low noise GaAsFET preamplifier. Requires 48 amps @ 13.8VDC. Dim: 12" w x 5" h x 12" d **\$689.99**

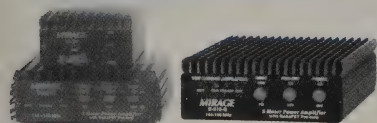
Power Curve – typical for the B-2530G												
IN	1	3	5	10	25	---	---	---	---			
OUT	30	95	140	250	300	---	---	---	---			

B-5030G 300W output with 50W input. Low noise GaAsFET preamplifier. Requires 48 amps @ 13.8VDC. Dim: 12" w x 5" h x 12" d **\$669.99**

Power Curve – typical for the B-5030G												
IN	1	3	5	10	25	50	---	---	---			
OUT	---	---	55	150	220	300	---	---	---			

B-320G Up to 200W output. Low power input for Handheld Radios 250mW to 10W. High power input for mobile radios, 10W to 50W. Low noise GaAs FET preamplifier. **\$429.99**

35W/100W for your HT



B-34G (left/bottom) Boosts 2M HTs with up to 8W output to 35W+ output. SSB/FM. GaAsFET preamp and mobile bracket. 13.8 VDC @ 4A..... **\$99.99**

B-34 (left/top) Like B-34G but FM only, no preamp/mobile bracket. Dim: 3.125" x 1.75" x 4.5". **\$79.99**

B-310G (right) Boosts 0.25 to 8W 2M Handhelds to 25-100W+ output. Includes preamp, mobile mounting bracket & BNC to amp patch cable. 13.8 VDC @ 15A. Dim: 4.75" w x 1.75" h x 7.5" d **\$179.99**

Power Curve – typical for the B-310G												
IN	.25	0.5	1	2	4	6	7	8	---			
OUT	25	50	75	95	100	100	100+	100+	---			

Boost Mobile, Base or Handheld Power!
All Modes: FM, SSB, CW . . . Superb GaAs FET preamplifier in G Models
Overdrive, high SWR, Over-temperature protection . . . Remote controllable

**6 Meters
All Mode
150W**



A-1015G Covers 50 to 52 MHz and provides 150W output with 10W input; FM/SSB/CW. Built-in Low Noise GaAsFET receive preamplifier, internal T/R switching and remote keying. 13.8 VDC @ 18-23 Amps. Dim: 5.5" w x 3" h x 12" d; 5 lbs..... **\$349.99**

**2M/440
Dual Band
35/45W**



BD-35 For DUAL-BAND HTs with up to 7W output. Produces up to 45W output on 2M and 35W on 440 MHz. Automatic band selection, full duplex operation. Single connector for dual band radios and antennas. 12-15 VDC @ 7A. Dim: 5" w x 1.75" h x 5" d. Mobile bracket included..... **\$149.99**

Power Curves – typical BD-35 output power								
Watts Out (2M)	30	40	45	45+	45+	45+	45+	45+
Watts Out (440 MHz)	16	26	32	35+	35+	35+	35+	35+
Watts In	1	2	3	4	5	6	7	8

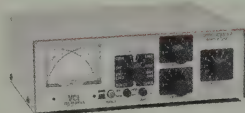
REMOTE CONTROL HEADS

RC-1 – Allows remote control of Mirage amplifier functions: Power and pre-amp On-Off, FM/SSB mode select. Only 1.75" x 3.75" x 2.5". Comes with 18 ft. head to amplifier control cable. **\$45.99**

RC-2 for B-XX18G series amplifiers..... **\$45.99**

VECTRONICS

... fine amateur radio products



Versatile 300W Antenna Tuner

VC-300DLP Match any antenna; Full 1.8-30 MHz coverage; Rated 300W PEP, 200W continuous; 150W on 1.8 MHz; Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load. Dim: 10.25" w x 9.5" d x 3.5" h; 3.4 lbs..... **\$149.99**

More Vectronics Amateur Products

AT-100 Tuned active SWL antenna **\$79.99**
DL-300M 300W dry dummy load **\$44.99**
DL-650M 1500W dry dummy load **\$74.99**
DL-2500 2500W dry dummy load **\$179.99**
VC-300M 300W mobile tuner **\$99.99**
VC-300D 300W tuner w/digital bargraph. **\$169.99**
HFP-1 75/300Q high pass TVI filter **\$24.99**

More MIRAGE amps...

including models for 220 MHz, 430-440 MHz. Also, continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.

See the Price Guide under MIRAGE

Low Noise GaAsFET Receive Preamps

Improves weak signal reception; <0.8dB noise figure; 15–22dB gain with selectable level prevents receiver overload and intermodulation; Automatic TR switching up to 100W thru put; Rugged die-cast enclosures; In-Shack or Mast-Mount models



In-Shack Models – **\$129.99** ea.

KP-1/6M 50-54 MHz **KP-1/2M** 144-148 MHz

KP-1/440 430-450 MHz

Mast Mount Models – **\$179.99** ea.

KP-2/6M for 50-54 MHz **KP-2/2M** 144-148 MHz

KP-2/440 430-450 MHz

MFJ MFJ ENTERPRISES, INC.



DC Power for your MIRAGE Amplifier

4035MV Heavy Duty - the transformer alone weighs 19.2 lbs! Voltage front panel adjustable 0–15 Volts. Dual meters show Volts and Amps. Rated 30A continuous, and 35A peak. Fully regulated and fully overload protected. 110 VAC **\$139.99**



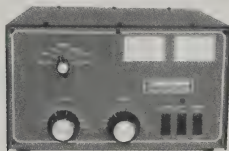
High Power Roller Inductor Tuner

HFT-1500 Match any antenna Full 1.8 to 30 MHz coverage; Rated 2KW PEP, 1KW continuous; Three continuously variable components: two 4.5kV capacitors and a crank driven a roller inductor with digital counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position coax switch and 4:1 balun. Dim: 5-1/2" h x 12-1/2" w x 12" d; 10 lbs..... **\$399.99**

See the Price Guide for a list of Vectronics Kits

811A Amplifiers

- Cover 160-15M, including WARC/MARS bands
User Modifiable for 10/12M with proper license
- All Modes
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input • ALC Control • Quiet Air Cooling
- Dual Meters show Plate Voltage, Grid and Plate Current • Vernier Reduction tuning
- Comes wired for 120V Operation
- Size: 15.5" d x 13-3/4" w x 8.25" h; 52 lbs.



AL-811 – Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB and 500W CW..... **\$599.99**

AL-811H – Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB or 600W CW**\$749.99**

3-500Z Amplifier

- Covers 160-15M, including WARC bands.
User modifiable for 10/12M with proper license
- HD silicone steel core Plate Transformer (26 lb) and Computer Grade capacitors
- A Full KW PEP! (70% efficiency)
- Tuned Input • Adjustable ALC • Air Cooled
- Dual Cross-needle meters show SWR, Refl. PEP power, Plate voltage, Grid and Plate current
- Operates from 90-140 VAC or 205-250 VAC
- Size: 15-1/2" d x 14-1/2" w x 18-1/2" h; 48 lbs.



AL-80B – Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB and 850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA**\$1299.99**

Solid State Mobile Amplifier



ALS-500M – Uses (4) 25C2879 RF power transistors. The ideal amplifier to increase your HF mobile up to 500 Watts. Continuous coverage 1.5–22 MHz* with instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system, draws 75A peak current. Dim: 3.5" x 9" x 15"; 5.5 lbs.**\$699.99**

Solid State Base Amplifier



ALS-600 – No tuning, no fuss, no worries – just turn it on and operate. Continuous coverage 1.5–22 MHz*, instant bandswitching, SWR and over power protected. Full 600W output, includes AC power supply. Extremely quiet, very compact. Amplifier and power supply both 6 x 9.5 x 12 inches; 30 lbs. total **\$1129.99**

*Modification kit (MOD-10M) for 10/12M operation is available for licensed Hams direct from Ameritron

AMERITRON

3CX-800A7 Amplifiers

- Cover 160-15M, including WARC bands.
User Modifiable for 10/12M with proper license
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input • ALC Control • Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Size: 8-1/2" h x 16-1/2" w x 13-3/4" d; 52 lbs.



AL-800 – Uses as a single Eimac® 3CX800A7 tube. Delivers 1250W PEP SSB output..... **\$1699.99**

AL-800H Uses (2) Eimac® 3CX800A7 tubes. Delivers 1500W PEP SSB output.....**\$2499.99**

572B Amplifier

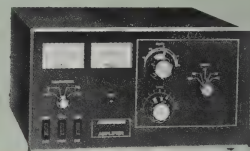
- Covers 160-15M, including WARC bands
User modifiable for 10/12M with proper license
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input • ALC Control • Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage; Grid and Plate current
- Multi-voltage Operation
- Size: 8-1/2" h x 15-1/2" w x 14-1/2" d; 40 lbs



AL-572 This Near Legal Limit™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier **\$1349.99**

Super Legal Limit Amplifiers

- Cover 160-15M, including WARC bands.
User modifiable for 10/12M with license
- Strong Stainless Steel Chassis
- Highly efficient PeterDahl tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Size: 18" h x 17" w x 10" d; approx. 77 lbs.



AL-1500 – Uses a single Eimac® 8877 Ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned **\$2649.99**



AL-1200 – Uses Ham radio's toughest tube, the Eimac® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for a half hour..... **\$2299.99**



AL-82 – Uses a pair of 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linear models because their lighter weight power supplies can't use these tubes to their full potential..... **\$2299.99**

AMERITRON



ACCESSORIES

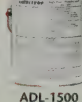
ATP-100

Tuning Pulser – Safely tune up RF power amplifiers. Prevents overheating, tube damage, power supply stress and component failure..... **\$49.99**



ADL-2500

Dry Dummy load – Rated 2500W average power for 1 minute on, 10 minutes off, 300W continuous. Air cooled, low VSWR up to 60 MHz..... **\$189.99**



ADL-1500

Oil Filled Dummy Load – Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container as pictured **\$69.99**



QSK-5

Pin diode T/R Switch – Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 kW PEP, 2 kW CW **\$329.99**



ICP-120/240

In-rush Current Protector – Stops power-up in-rush current surge and absorbs momentary voltage spikes. ICP-120 for 110-120V; ICP-240 for 220-240V each **\$79.99**



ATR-30

1500W Antenna Tuner – Tune nearly any antenna system 1.8–30 MHz. Rugged, heavy duty components, edge wound, silver-plated roller inductor. Cross-needle meter..... **\$549.99**

RC5-4V

Remote Coax Switch – Selects one of five outputs using one feedline and 6-wire control cable. Rated 1KW @ 150 MHz, usable to 250 MHz **\$139.99**

RC5-4

Remote Coax Switch – Selects one of four outputs by supplying control voltages thru the coaxial cable. Rated 1500W from 1.8 to 30 MHz. **\$129.99**

ARB-704

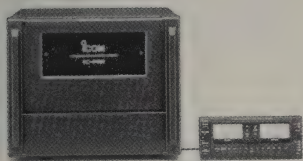
Interface Buffer – Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Interface cable optional, requires 12VDC **\$49.99**

AWM-30

SWR/Wattmeter – Uses a Cross-needle meter that reads Peak or Average on 300W/3KW ranges up to 30 MHz **\$139.99**



ICOM



PW-1 HF + 50 MHz Solid State Linear Amplifier
Frequency range: 160-15m, 6m; Power output with 220V input: 1000 PEP SSB, 1000W CW/RTTY (100% duty cycle, QSK); 100W drive; Built-in all band automatic antenna tuner; Automatic AC voltage selector and band change; Current, voltage, temperature, SWR, output power protectors; Wide range adjustable ALC allows use with almost any rig; Control head may be detached from main unit (as shown); Built-in 110/220VAC supply. Dim: 14" w x 10.5" h x 14.5" d; 56 lbs. **\$4599.99**

YAESU



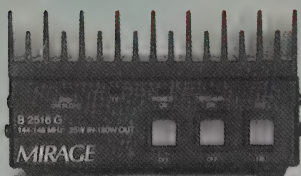
QUADRA SYSTEM HF/50 MHz Solid-State Amp Frequency range: 160-15m, 6m; 1000W (6m: 500W); 100W drive; 4 twin MOSFET PA modules; Dot matrix multi-function LCD; 2 input and 4 output jacks for easy connection to station antenna; Built-in high-speed auto antenna tuner; Panoramic SWR display shows "before" and "after tuning" SWR data; SWR protection; Auto band switching with FT-1000, FT-1000MP, FT-1000MP MK V, MK V FIELD, and FT-920; 117VAC for 500W; 220V AC for 1000W. Dim: 6.25" x 5.375" x 16.25"; 59 lbs. **\$3999.99**

SGC



52-96 SG-500 Power Amplifier For 500 Watt operation in your base station or mobile, the SG-500 SmartPowerCube™ provides maximum reliability and unattended operation. The SG-500 is microprocessor controlled. It automatically monitors your power needs and selects the correct broadband filter. It also has the most advanced self-protection on the market. For maximum power, under the most demanding conditions, the SmartPowerCube is the professional's choice; 1.8-24MHz; 500W PEP SSB, 500W CW with optional fan; Auto band switching. Dim: 13.2" l x 10.8" w x 6.1" h; 21 lbs. **\$1249.99**

MIRAGE



VHF/UHF AMPLIFIERS

15 to 300 watts of brute power! Models for 6M-70 cm, base, mobile, repeater or ATV operation; 12V DC; FM (SSB/CW on some models); 20dB gain GaAsFET preamplifier; Overdrive and high temperature protection; Remote control capability

Model	MHz	Max Input	Max Output	Amps	Pre-amp	Price
A-1015G	50-52	1-15W	150W	23	yes	\$349.99
B-34	144-148	8W	35W	4	no	79.99
B-34G	144-148	8W	35W	4	yes	99.99
B-1018G	144-148	0.2-15W	160W	25	yes	369.99
B-2518G	144-148	20-35W	160W	25	yes	299.99
B-2530G	144-148	10-35W	300W	48	yes	689.99
B-5018G	144-148	20-60W	160W	22	yes	299.99
B-5030G	144-148	0.5-50W	300W	48	yes	669.99
B-310G	144-148	0.25-8W	100W	15	yes	179.99
B-320G	144-148	2.5-50W	200W	25	yes	429.99
BD-35	144/440	1-7W	45/35W	7	no	149.99
C-22G	222-225	2W	20W	5	yes	154.99
C-211G	222-225	2W	110W	20	yes	329.99
C-1012G	222-225	10W	120W	25	yes	329.99
C-1022G	222-225	10W	220W	20*	yes	689.99
C-2512G	222-225	30W	120W	25	yes	309.99
D-15N	425-450	2W	15W	3	no	169.99
D-26N	430-450	2W	60W	12	no	259.99
D-1010N	430-450	10W	100W	15	no	379.99
D-3010N	430-450	30W	100W	20	no	349.99
D-1010ATVN	430ATV	10W	100W	20	no	399.99

N = Type-N connectors

* at 28VDC

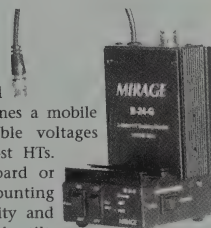
RC-1 Remote Control Head For most Mirage amps. Power/preamp On/Off, SSB/FM mode switch. 18" cable. 1.25" x 3.75" x 2.25" **\$45.99**

RC-2 Remote Control Head Same as the RC-1 but works only with the Mirage B1018G, B2518G and B5018G amplifiers..... **\$45.99**

DOCKING BOOSTER

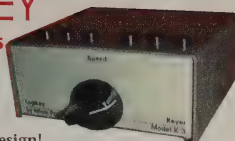
Slide an HT in and it instantly becomes a mobile or base! Selectable voltages allow use of most HTs. Place on dashboard or desk, or use mounting bracket for security and convenience with tilt. Boost mobile or base station levels, up to 50W. Replace HT battery; Requires 13.8 VDC.

B-24G For 2m FM Handhelds Up to 50W output with 0.5-8W input; 18dB GaAsFET preamp with on/off switch; LEDs show preamp on, on air, and transmit. Dim: 4.25" h x 3.35" w x 3.25" d; HT adapters available, see Price Guide. **\$109.99**



LOGIKEY

IDIOM Press

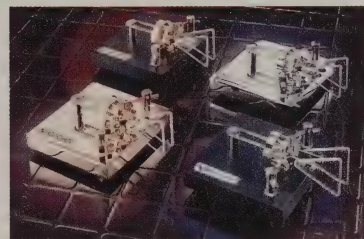


Full featured version of the famous Super CMOS III keyer design!

K-3 Non-volatile memory; 6 editable messages, 1,530 characters; Messages can include programmed functions like automatic contest numbers and speed changes; Message can allow paddle inserted text & loop for continuous replay; Linear speed control (5-60 WPM); Adjustable weighting and monitor tone; Tune function; Auto character spacing if desired; Can emulate others, including Curtis "A" timing; Ultra Speed mode for messages up to 99 WPM; Contest serial numbers 001-9999, with push button decrement; Beacon capability; Full compensation for QSK rig timing; Keys solid-state or grid-blocked tube rigs; 12V DC, < 0.1 amp. Dim: 4.25" w x 2.25" h x 4.75" d **\$129.99**

HK-3 Hook-up kit for the K3 includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V.... **\$10.99**

BENCHER, INC.



IAMBIC & SINGLE LEVEL PADDLES

Affordable standard for CW operators world-wide.

BY-1 Black base **\$109.99**

BY-2 Chrome **\$129.99**

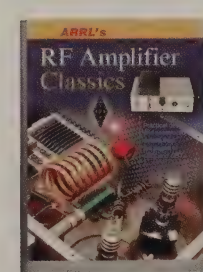
BY-3 Gold iambic **Closeout \$299.99**

BY-4 Black and gold..... **\$169.99**

Turn dreams of constructing your first amp or next brick into reality!

ARRL's RF Amplifier Classics

Shorten your discovery work with ARRL's RF Amplifier Classics! Use this book to find classic tube and solid-state designs at power levels from 5W to 1.5kW. Included are two-dozen amplifier projects



and articles published in ARRL's popular journals between 1980 and 2003. There are high quality works from respected authors such as Gary Breed, K9AY; Jerry Pittenger, K8RA; Bill Sabin, W0IYH; Al Ward, W5LUA; Dave Meacham, W6EMD and others.

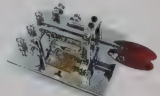
ARR 9310 \$19.95

VIBROPLEX®

The Original Bug, c. 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ WPM.



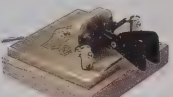
- 110 Standard** Painted base/chrome top **\$169.99**
- 115 Deluxe** Polished chrome base and top parts with fine jewel movements **\$199.99**
- 100 Presentation** Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements **\$269.99**
- 090 Gold Plated** base/chrome top **\$309.99**



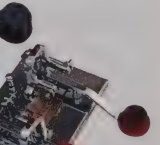
Vibrokeyers: Single lever paddle (left) initiates automatic dots and dashes of an electronic key. Iambic model (right) allows automatic dot/dash insertion.

Vibrokeyer

- 120 Standard** Blk base, chrome parts **\$149.99**
- 115 Deluxe** Chrome base and top parts with jeweled movements **\$184.99**
- 113 Gold** 24K gold-plated base and chrome top parts with jeweled movements **\$279.99**
- Iambic**
- 135 Standard** **\$149.99**
- 130 Deluxe** **\$189.99**
- 125 Presentation** 24K gold-plated top plate, chrome base with jeweled movements **\$249.99**
- 123 Gold** **\$279.99**



- 145 Triangle Brass Racer Iambic** Solid brass paddle & polished hardwood base **\$129.99**
- 150 Square Brass Racer Solid** lacquered brass paddle mounted on a polished hardwood base. Magnetic action, no springs **\$139.99**



Straight Keys (left) Unique mechanical action, unlike any straight key ever manufactured.

- 155 Standard** **\$149.99**
- 160 Deluxe** **\$189.99**
- 153 Gold** **\$279.99**

Deluxe Double Keys (right) Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

- 165 Straight key/Iambic** **\$329.99**
- 170 Straight key/Vibrokeyer** **\$329.99**

NORCOMM™

TO NE SIGNALLING



NC-101 Encoder Micro-mini. CTCSS encoder, field tunable to any of the CTCSS tone frequencies between 67 Hz and 254 Hz. 5 to 15VDC. Dim: 0.60" w x 0.80" l x 0.15" h **NorFax™ #5040** **\$21.99**

NC-104 Programmable Encoder Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones + 69.37, 97.4 and 205.5 Hz. 7 to 24VDC. Dim: 0.625" w x 0.80" l x 0.170" d **NorFax™ #5150** **\$26.99**

NC-106 Programmable CTCSS Encoder/Decoder A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the standard 37 CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85" w x 1.35" l x 0.28" h **NorFax™ #5230** **\$62.99**

NC-401 Touch-Tone® Decoder Unique micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programming easily performed by means of a conventional DTMF encoder. 6-24VDC. Dim: 0.80" w x 1.37" l x 0.23" h. **NorFax™ #5545** **\$62.99**

NorFax™ auto fax retrieval system - 530-477-8403

UM Unified Microsystems

XT-4 CW Memory Keyer

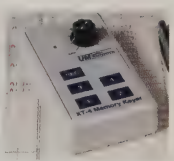
Designed for QRP, Field Day, mobile CW county hunting - any portable operation. Also goes well in the shack with smaller rigs. 8-45 WPM. **Memories:** 4 with 100 Morse characters each positive keying output only via RCA phono jack output. 1/8" (3.5mm) stereo jack input. Paddle reverse for left or right-hand operation. Auto power save mode w/flashing LED engages after 30 min. of inactivity. Requires 9V alkaline battery **\$69.99**

KC-4 Cable set for XT-4 **\$9.99**

VK-64 Combination CW

and Voice Keyer Store and play back CQs, contest exchanges, etc. in both CW and voice. Voice keyer has 4 memories (up to 15 seconds each). Set CW keyer between 10-45 WPM (4 memories programmable with 300 characters each); Configure for iambic A/B keying, weight, side tone, and paddle reverse; Tune function; Auto repeat and 1/2 to 12-second delay (CW and message #1); Run stand alone through panel or control with PC/laptop through printer port (standard 25-pin); Use with major contest logging programs; 12V wall transformer power supply **\$229.99**

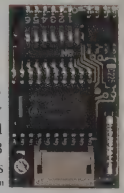
VK-8 Cable Shielded audio cable semi-kit wired and tested except for microphone and transmitter connectors (8-pin) **\$24.99**



COMMUNICATIONS SPECIALISTS, INC.

TO NE ENCODERS & DECODERS

SS-64 Programmable CTCSS Encoder Super small for easy install in most HTs. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 0.66" x 1.08" x 0.21"; requires 6-28 VDC **\$28.99**



TS-64DS Field programmable CTCSS En/Decoder DIP switches for 64 EIA tones 33-254.1 Hz. 1.25" x 2" x 0.3"; 6-28 VDC .. **\$57.99**



TE-32 Multi-tone Encoder Provides 32 tones direct access from the dial rotary switch to all EIA CTCSS tones from 67-203.5 Hz, allowing access to various repeaters. Great for mobile or test bench. 5.25" x 3.3" x 1.7"; 6-30 VDC **\$49.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages; 200 characters total; CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35" **\$69.99**

Wiring diagrams and lists of Fax-on Demand documents can be obtained from www.com-spec.com.



Combination Code Practice Oscillator and CW Monitor Volume control, 3" speaker, & headphone terminals. Requires a code key and a 9V battery **OCM-2K Kit \$19.99 OCM-2W Wired... \$29.99**



K-1 (left) Low-cost general purpose key w/phenolic base, adjustable tension, contact spacing .. **\$10.95**

K-4 (right) Deluxe high quality key. Polished brass base, shorting bar **\$16.95**



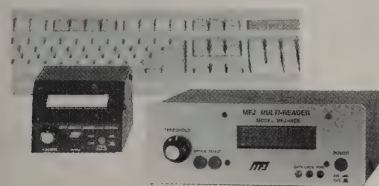
FOR LEARNING/PRACTICING CODE

414 Professional Classroom Tutor Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port cable and open-end patch cable. 12 VDC or 110 VAC. 8.5" w x 2.25" h x 6" d **\$189.99**



554 Code Practice Oscillator Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3" speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power ON LED, 1/4" key jack, 3.5mm external speaker jack and DC input jack. Requires 12V DC. All-metal enclosure. 4.25" x 1.5" h x 5" d **\$79.99**

550 Telegraph Key **\$7.99**



AIDED CW SENDING/RECEIVING

452 Super CW Keyboard (left) A stand alone CW keyboard that includes an RFI suppressed keyboard, a two line 16-character non-volatile LCD display. Send effortless CW by just typing the characters as you see what you are sending on the display. No computer to boot up, no program to load. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Has buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC..... **\$129.99**

462B MultiReader (right) Supply this unit with audio from a receiver or transceiver; tune in CW, RTTY, ASCII or AMTOR (FEC) signals; and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes; AutoTrak™ feature helps track and decode high speed CW; 8K mem. stores several pages; PLL modem technology digs out weak signals; Precision tuning indicator; Printer port. Dim: 6.25" w x 2.5" h x 6.25" d; Requires 12VDC..... **\$169.99**

461 Pocket-Size Morse Code Reader™ No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Battery saver (uses 9V - not included). Dim: 2.25" h x 3.25" w x 1" d, 5.5 oz..... **\$79.99**

5162 Receiver Cable Connects the 461 to a radio's external 3.5mm jack **\$5.99**



464 CW Reader With Built-In Keyer This unit simply plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for easy, complete CW operation. Sends and reads CW at 5 to 99 WPM with automatic speed tracking.; Easy menu operation; Large 2-line LCD shows "send and receive" text; Front panel speed and volume controls; 4 message memories; Type-ahead and read-again buffers; Adjustable weight and sidetone; Built-in speaker; RFI proof..... **\$169.99**

KEYERS

407D Deluxe Electronic Keyer Features dot-dash mem., self completing dots and dashes; jam-proof spacing. RF proof, instant start. Single squeeze, or straight key. Front panel controls: speed, weight, tone & volume, ON/OFF, tune, auto or semi-automatic. Selectable A or B-type iambic keying. Built-in spkr., uses 9V batt. Dim: 7" w x 2" h x 6" d.. **\$69.99**

401D Econo Electronic Keyer II Similar to 407D with external speed and volume controls, internal weight and tune controls. Uses 9V battery **\$49.99**



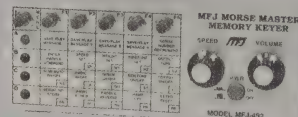
434 Contest Voice Keyer™ Microprocessor-controlled, transformer-coupled - No RFI, hum or feed-back. Automatically call CQ and send a call. Store frequently used phrases, like "CQ. Contest this is AA5MT," in your own voice. Record and play back five natural sounding messages totaling 75 seconds. Repeat messages continuously and vary the delay from 3-500 seconds. Receive and play back off-the-air signals. Easy to use - plug in an 8-pin microphone cable then plug the 434 shielded cable into the mic input. Controls tailor audio level to match your voice. Built-in speaker and audio amplifier. Uses 9V battery, 9-15VDC or AC with optional adapter. Dim: 6.5" w x 2.5" h x 6.5" d..... **\$169.99**

422D Keyer-Paddle Combo Keyer unit installs on top of Bencher iambic paddle. Uses Curtis™ chip. 9 to 50 wpm. Adjustable weight and tone, dot-dash memory and sidetone. Semi-automatic and tune or auto modes. Keys grid block, cathode or solid state. Uses 9V battery or AC adapter. Dim: 4.125" w x 2.625" h x 5.5" d **\$159.99**

422DX Keyer only **\$79.99**



490 Keyer/Bencher Paddle Combo A feature-rich keyer in a compact configuration that fits right on its own Bencher iambic paddle. Provides memories, morse trainer, sidetone, automatic serial numbering and more. Dim: 5" w x 3" h x 5.5" d. Uses 9-volt battery or 110 VAC with MFJ-1312D.. **\$189.99**



492 Menu Driven Memory Keyer No complex sequences. Save messages, enter iambic, semi-auto, handkey, message queue, paddle modes. Select iambic A/B, Morse trainer, store starting serial numbers. Holds 192 characters in 4 memories (expandable to 8K+ characters in 8 memories. Front panel speed (5-100 WPM) and volume control for side-tone speaker. Direct and grid block keying. 9V batt. or 110V AC adapter. Dim: 6.5" x 2.5" x 6.25" **\$99.99**

451 Morse Keyboard Stand-alone CW keyboard with 200 character type-ahead buffer, and two 100 character messages. 12VDC **\$99.99**

452 Morse Keyboard with 16 character LCD display. Comes with keyboard..... **\$129.99**



495 Millennium CW Keyer A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display - send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode **\$149.99**



Microphones & Accessories

Defining the Standards for
Amateur Radio Communications



Handi-Mics

Includes: Dash
Mount Holder,
Boom Clip and
Windscreen

See "Heil" in the Price Guide for CH-1 series microphone cables for Handi-Mics.

The old Hand Microphone sound is GONE! - no more hollow sound due to clamshell designs. In place are five new Clean and Clear sounding Handi-Mics; each for different applications, mating to different rigs and inputs. A very comfortable tactile PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a unique dash mount holder, boom clip and a windscreen.

- HM-4** has HC-4 DX Dream Machine element and PTT button **\$80.99**
- HM-5** has HC-5 Full Range Communications element and PTT **\$80.99**
- HM-IC** has Electret element, for most ICOM rigs and PTT **\$80.99**
- HM-PRO** has wide range Broadcast element and PTT **\$80.99**
- HM-PRO PLUS** Being used on live sound stages and as a fabulous interview microphone by commercial TV & Radio broadcasters..... **Special Order \$80.99**



HM-10's

Whether DX or Rag Chews, these are the Great Sounding Heil microphones you have been hearing on the Ham bands for years. The HM-10 is available with your choice of an HC-4 "DX Dream Machine" or HC-5 "Full Range Articulation" element. The HM-10 Dual has both the HC-5 and HC-4 elements (switch selectable), a choice for varying conditions. Both require a CC-1 cord.

- HM-10-4** (w/HC-4) or **HM-10-5** (w/HC-5) ..each **\$65.99**
- HM-10-DUAL** (with HC-4 and HC-5)..... **\$115.99**

the iCM for pre-PRO ICOMs

A special Electret condenser element provides plenty of Output, Great Sound and Punch for those older ICOMs that lacked enough gain to work well with dynamic microphone elements. With the PRO-series, simply reduce the microphone gain to acceptable ALV levels. Beautiful platinum finish, soft touch PTT switch. Includes an 8-pin ICOM cable with jack for the FS-2 foot or HS-2 hand switch, a microphone clip to mount on all Heil booms and a windscreen **\$89.99**



the CLASSIC 1930s RCA 74B Exact Replica

High quality, all metal construction - no plastic. Dual elements, featuring the PROLINE broadcast dynamic element, plus your choice of the second (HC-4 or HC-5) communications element, switchable from the back panel, along with a "soft touch" PTT switch. Dual impedance (select 600 or 30k ohms). The stainless steel trimmed cast steel base is removable and the logo can be rotated for inverted mounting on the Heil PL-2T boom. Requires a CC-1 cable. Heil Sound mails your call letters after purchase.

- HCL-5** (w/HC-5).... **\$229.99** / **HCL-4** (w/HC-4)..... ea. **\$229.99**
- HCL-IC** for early ICOM--prePRO..... **Special Order \$229.99**



the HERITAGE Professional Cardoid Dynamic Studio Microphone

HMG - A replica of the famous "Elvis" microphone of the 1950's. The finish is a special "showchrome" where the steel body is heavily chrome plated and the finish looks about 6 in. deep. Incorporates the Heil PROLINE commercial 600 ohm balanced output broadcast element (3-pin XLR) and outperforms many \$1,000 studio microphones. No PTT..... **Special Order \$130.99**

- CB-1** Optional Classic Base (above) **\$58.99**



PR-30 Dynamic Cardoid Microphone - For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz-18 kHz response. 5/8" x 27 mount assembly..... **Special Order \$199.99**

PR-40 - Large Diameter Studio Microphone New element technology with a response from 28 Hz-18 kHz with a mid-range rise for gorgeous vocal articulation. Shown with CB-1 stand, not included... **Special Order \$209.99**

These models will make your Ham rig sound Great, too!
Get the full Scoop at heilsound.com



GM Series

FULL RANGE DUAL ELEMENT MICROPHONES

Provides Full-range, Smooth and Articulate audio for AM, FM and "HI-FI" SSB. The wide 60 -16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. In addition, the GM comes equipped with a second HC-4 or HC-5 element for *extra punch* when you need it.

The die-cast body is finished in high lustrous black lacquer and topped with a crushproof golden grill. A "wide-narrow" switch selects the second element, and a "soft touch" microswitch provides smooth, noise free PTT operation. Requires a CC-1 cord.

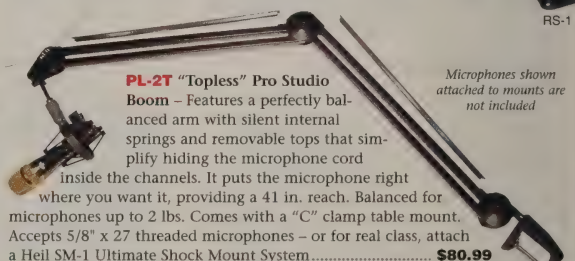
- GM-4** GM with Full Range and HC-4 elements **\$140.99**
- GM-5** GM with Full Range and HC-5 elements **\$140.99**
- GM-V** "Vintage" GM - A built-in matching transformer allows its use with older rigs like Collins, Hallicrafters, Johnson, etc. Uses the Full Range element and switchable Passive EQ circuit for an alternate narrow, more articulate response..... **\$145.99**

BASES & BOOMS



- TB-1** Table Base Mount A heavy, 2 lb. 10 oz. cast steel desk stand. 6 in. diameter x 1 in. high with a 4 in. high chrome 5/8" x 27 mic mount..... **\$25.99**
- CB-1** Classic Base A reproduction of an RCA microphone base. The heavy, 2 lb. 7 oz. cast steel with stainless steel trim is solid and stays put. Dim: 4" w x 6-1/2" d x 3/4" h with 3 inch high, 5/8" x 27 threaded microphone mount **\$58.99**
- TM-1** Tri-Mount Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation..... **\$14.99**

- SB-2** Small Microphone Boom Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread mic mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole..... **\$42.99**
- DT-1** Desk Top Flush Mount - Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top..... **\$31.99**
- FL-1** Flange Mount - Allows secure screw mounting of Heil booms directly to your desk top..... **\$20.99**
- RS-1** Riser - A 12 in. high flange mount that allows the PL-2T to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio..... **\$25.99**



- PL-2T** "Topless" Pro Studio Boom - Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones - or for real class, attach a Heil SM-1 Ultimate Shock Mount System..... **\$80.99**
- SM-1** The Ultimate Shock Mount System - For GM, HM or "icm" microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. Give your shack a great "studio" look!..... **\$50.99**



ADAPTER CORDS & Other ACCESSORIES

See "HEIL" in the Price Guide

Headsets/Boom Microphones



The **Heil QUIET PHONE** series is a result of years of research and development at Heil Sound. Normal headsets are designed to reproduce audio and pay little attention to the outside environment. In most cases, the surrounding background noise is louder than the audio that you are trying to hear in the headset.

Heil Sound applies a unique active Noise Canceling Technology using two small out-of-phase microphones and a differential amplifier inside the headphones. They pick up the outside ambient noise as well as the audio information. Using the phase information the differential amplifier reduces sounds under 400 Hz up to 70%. The result is a dramatic reduction of ambient noise as well as noise from blowers, jet engines, the TV in the next room and other operators in the shack.

PRO-SET QUIET PHONE

The Heil PRO-SET needs no introduction: it's a lightweight headset/boom microphone with a flexible boom and a choice of microphone elements. It has become the defacto standard for leading DX and contest operators worldwide but now, the PRO-SET is available with the exclusive Heil 'QUIET PHONE' Active Noise Canceling Technology. It's the first and only headphone to bring you active noise cancellation as well as a second Heil exclusive - switchable Speaker Phase Reversal that changes the audio from being heard 'centered' in your head, to a spatially widened effect. This feature greatly reduces listening fatigue and in some conditions can reduce noise and enhance intelligibility. This has never been done before and you now have it all in the new Heil PRO-SET QUIET PHONE. The in-line battery box contains the phase cancellation, phase reversal components and a PTT control button. All PRO-SETS require an AD-1 adapter cable (\$17.99 - specify radio).

- PSQP-4** with Heil HC-4 "DX" element and Leatherette Travel Bag **\$225.99**
PSQP-5 with Heil HC-5 "Full Range" element and Leatherette Travel Bag..... **\$225.99**
PSQP-IC with Heil 'ic' Electret element & cable for Icom only, and Leatherette Travel Bag..... **\$242.99**

Original PRO-SETS without QUIET PHONE feature

- PRO-SET 4** with Heil HC-4 "DX" element and Phase Reversal Switch **\$130.99**
PRO-SET 5 with Heil HC-5 "Full Range" element and Phase Reversal Switch **\$130.99**
PRO-SET-IC with Heil 'ic' Electret element and Phase Reversal. For Icom only, cable included... **\$147.99**

BOOMSETS



PRO-SET-PLUS Headset/Boom Microphone
 Maximum comfort and noise seal is provided by full cover leatherette earpads with removable cotton covers. The cushioned inner headband is self-adjusting for a perfect fit, and the boom swings 180° for left or right side operation. Includes switchable, dual microphone elements; the Heil HC-5 for normal operation, the HC-4 for DX. The boom and top headband have rugged but flexible internal steel bands that can be adjusted as you wish. Great sound from frequency tailored speakers mounted in tuned cavities, and a phase reversal switch changes the sound field from being "centered" in your head, to a spatially widened effect. This feature greatly reduces listening fatigue and can reduce noise and enhance intelligibility. Requires AD-1 cord (\$17.99-specify radio). **\$189.99**
PRO-SET-PLUS-IC same, but for Icom radios. Includes AD-1ic adapter cord **\$206.99**



BM-10 Series Headset/Boom Microphones - A lightweight, soft and comfortable boomset for prolonged use in contests, etc. The boom microphone is available with the Heil HC-5 "Full Range" or HC-4 "DX" element. The cord is wired with 1/4" stereo plug and 1/8" transmit audio plug and requires an AD-1 adapter cord (\$17.99 - specify radio)

- BM-10-4** with the HC-4 element..... **\$89.99**
BM-10-5 with the HC-5 element..... **\$89.99**
BM-10-IC Has an FET Electret element for Icom radios, includes adapter cable..... **\$106.99**
BM-5 Series Same as the BM-10 but with a Single Headphone. Great for mobile!
BM-5-4 with Heil HC-4 "DX" element **\$69.99**
BM-5-5 with HC-5 "Full Range" element..... **\$69.99**
BM-5-IC with HC-5 "Full Range" element, designed for Icom radios..... **\$86.99**

the TRAVELLER

Single-side Headset/Boom Microphone - Uses a high performance electret element and features Up/Down and PTT in-line switches and left or right side boom mount. Models for various microphone inputs listed below.

- Traveler-K8** any Kenwood 8-pin **Traveler-I8** ICOM 8-pin
Traveler-KM Kenwood modular **Traveler-YM** Yaesu modular
Traveler-706 Icom IC-706 only **Traveler-VX** Yaesu VX HT

All Traveler models - **\$89.99**

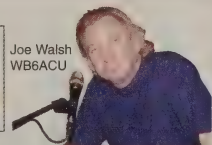


Optional **BAG-2**
 Leatherette Travel
 Bag ... **\$20.99**

QUIET PHONE

Active Noise Canceling Headset

- Incorporates Heil 'QUIETPHONE' Technology
- Soft Leatherette cushions with adjustable headband to insure most comfortable listening for extended periods of time.
- Operates on a single "AA" cell for 30 hours providing clean high fidelity dual channel audio.
- Right angle 1/8 in. plug works with most CD or MP-3 players and angle allows plugging into the audio jack located in the arm rest of commercial airliners. A 1/4 in. stereo adapter is included for use with your ham equipment.
- Folds flat for EZ carrying.



PROLINE - designed for commercial broadcast, studio recording and concert sound. A smooth, wide range response is provided by the PROLINE element which uses a powerful magnet structure of Neodymium, Iron and Boron with a 1-1/8" aluminum alloy, low mass voice coil assembly and combined with a balanced 600 ohm output.

HHG HERITAGE

- The 'Elvis' microphone of the 50's
- Deep 'showchrome' finish
- No PTT switch
- Shown with optional desk stand

Special Order - \$145.99



PR-20 PROLINE

- The most natural and cleanest sounding audio - outperforms \$1,000 mics. No PTT switch.

Special Order - \$125.99



HCLP CLASSIC PRO

- Replica of a 1930's RCA model
- Base can be removed allowing inverted mounting on a Heil PT-2T studio boom

Special Order - \$189.99

Also see New Models PR-30 and PR-40 on p.86

KOSS HEADSETS



QZ/5 Passive Noise Reduction – Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique head-strap, velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz **\$49.99**

QZ/50 Revolutionary Active Noise Reduction Reduces harmful and annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort during extended wearing. Dynamic element, 30 to 20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses AAA batteries; 2.5 oz **\$49.99**

QZ/99 Passive Noise Reduction stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4 mm plugs; Sensitivity: 102dB SPL/1mW; Impedance: 60 Ω; 15 oz..... **\$59.99**



QZ/2000 Noise Reduction Stereophone – The revolutionary Active Noise Reduction system reduces harmful or annoying low frequencies >15dB SPL from 40-200 Hz, average 10dB SPL from 30 to 1000 Hz. Response: 15-20,000 Hz response with 101 dB SPL/1mW sensitivity; 5kΩ impedance; Straight, dual entry, 4 ft. cord; Control case and collapsible stereophone; Adjustable headband; Input jack for audio play-through and 2-prong adapter for in-flight use; Includes 2 AA's; 2.3 oz **\$149.99**

KTX/8 Portable Stereophone – Dynamic element for extended frequency response from 40 to 20,000 Hz; Foam ear cushions for open, hear-through sound; Volume control on the cord for easy level adjustment; Collapsible headband design for protective storage and maximum portability; Reliable "L" plug for improved durability and reliability; Straight, single entry 4 ft. cord.. **\$14.99**

Y-88 "Y" Cord Delivers dual stereophone connection from a single sound source. Reliable "L" plug for improved reliability and durability..... **\$4.99**

PREMIER communications

SPM-100 Small Speaker/Mic This is a lightweight, compact unit. The microphone features a high-quality condenser-style mic element and high-fidelity audio circuit that produces excellent transmitted audio clarity, as well as a powerful speaker. It may be secured to the user's lapel or shoulder..... **\$31.99**



SPM-400A Mini Boom Mics The SPM-400A headsets include an in-the-ear speaker and a rubber-covered earloop design that adjusts to comfortably fit either the right or left ear of any user. The unit features an in-line Push-To-Talk switch that can be clipped to the user's lapel or belt **\$39.99**

See the Price Guide to find correct model numbers for your specific brand of radio.

KENWOOD

HS-5 Deluxe Headphones Specifically designed for use with communication systems. Provides a natural sound and eliminates pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug installed. Impedance: 8Ω; Power: 200mW @ 1000Hz max. input; Response: 150-4000Hz; 13 oz..... **\$79.99**



HS-6 Lightweight Headphones Response: 100 to 10,000 Hz Impedance: 12.5Ω; 6 ft. straight cord with 1/4 in. phone plug; 4 oz. .. **\$59.99**



YAESU China is the World's top OEM

YH-775TA Stereo Headphones Impedance: 35Ω; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; 4.4 oz..... **\$59.99**



752C Dual Tunable SSB/CW Audio Filter – Reduce noise and interference using the Peak, Notch, Low/High pass controls. Variable bandwidth from 40Hz to almost flat, notch to 70 dB. Inputs for two radios. 9–18VDC. Dim: 10" w x 2" h x 6" d. **\$99.99**



We accept I.M.P.A.C.® Government Credit Cards



HF-24RS Scanner Headphones – Designed specifically for racing fans. Listen to driver to pit conversations with reduced noise; Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise; Dual volume control to maximize hearing level; Includes 3.5mm, premium-gold, right-angle plug with a 10 ft. coiled cord **\$19.99**



HEADSET MICS

288 Deluxe Headset Microphone – Lightweight, comfortable for Yaesu, Icom, and Kenwood units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing..... (specify radio) **\$24.99**

292Y Featherweight™ Earphone/Microphone Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. For Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series..... **\$17.99**

MICROPHONES

297 Desk Microphone A sensitive condenser mic element coupled with a low-noise amplifier. Speech tailored; select SSB Mode for smooth, articulate DX or Full-range Mode for clear FM or AM. Flexible microphone boom, momentary and locking PTT switch. On-the-air LED indicator, frequency up/down switch. Requires two AA batteries. Dim: 4" w x 1.25" h x 6" d base; **\$69.99**

5397 8-Pin Adapters for 297 – Available for Yaesu, Icom and Kenwood units..... ea. **\$15.99**

295 Mini Speaker Mic For popular Yaesu, Icom and Kenwood HTs. Uses a non-directional electret element. Transmit LED (specify radio)..... **\$15.99**



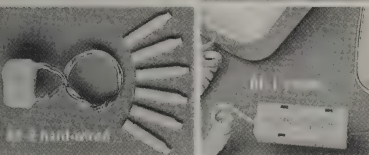
HEADPHONES

392B – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 100 – 24,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume and tone controls. Gold-plated plug, 9 ft cord and 1/4" adapter included..... **\$19.99**



K-COM

TELEPHONE RF INTERFERENCE FILTERS



Cure telephone RF interference in the most irritating cases even when dealing with transmitters with full legal power output. Use any number of filters with no adverse effect on telephone performance.

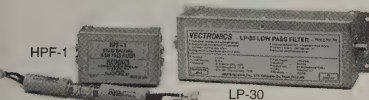
RF-1 For single line equipment including wired or cordless phones, answering/fax machines, modems, etc. Uses standard modular connectors..... **\$16.99**

RF-1/2-LINE For 2-line or multi-line, multi-station electronic key phone systems..... **\$22.99**

RF-1/COILED For use when RFI enters thru coiled telephone cord between base and handset..... **\$22.99**

RF-2 Hard-wired, provides a wide range of installations optional to add RFI rejection at a variety of physical/electrical locations in the system; inside jacks, behind wall mounts, etc..... **\$10.99**

VECTRONICS®



LP-30 Low Pass Filter - Suppress TV interference from HF transmitters. Use between transmitter and antenna or tuner. Up to -70dB attenuation of harmonics falling in TV bands. For 52Ω coax, up to 30 MHz; 1500W RF continuous power..... **\$69.99**

LP-2500 - Rated 2.5KW continuous..... **\$129.99**

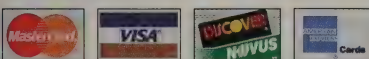
HPF-1 High Pass Filter - Install at TV antenna terminals. Stops interference caused by overload or harmonics from HF transmitters operating below 30 MHz. High harmonic attenuation but low loss in the 52-550 MHz TV passband. For 300Ω with balun and Type-F connector supplied for 75Ω) ... **\$24.99**



High Pass Filters - Stop TV, FM and VCR interference caused by harmonics or overload. Installs at TV or VCR antenna terminals or connector. Sharp frequency cutoff at 52 MHz with 70dB attenuation below 50 MHz.

HP-300T (300Ω) or **HP-75T** (75Ω)ea. **\$14.99**

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• 1-800-321-3594 OH • 1-800-327-1917 FL • 1-800-634-6227 NV

Email Your Questions to info@aesham.com

DCI DIGITAL COMMUNICATIONS



BANDPASS FILTERS

Install in transmission line between a 2 meter, 220 or 440 MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing wanted signals to pass through at full strength. Eliminate squeals, squawks, beeps and strange voices from a UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Effectively reduces spurious emissions on transmit. Hear desired signals even in crowded, urban centers. 2M/220 MHz uses four helical resonators, 440 MHz uses four 1/4-wave linear resonators, both with aperture coupling. VSWR 1.5:1; 200W power rating; Made of extruded aluminum, copper and brass. Dim: 12w"x 3"h x 5"d; 2 lb, 11oz.

146-4H 144 - 148. Loss <1 dB; Selectivity: -57dB @ 136 MHz and -43dB @ 156 MHz. SO-239 silver-terfon connectors **\$119.99**

145-2H 144 - 146 MHz **\$119.99**

146/444DB 144-148 / 438-450 MHz. Selectivity: -50dB @ 136 MHz, -40dB @ 156 MHz, -30dB @ 425 MHz, -25dB @ 465 MHz. SO-239 silver-terfon connectors **\$189.99**

223.5-3H 222 to 225 MHz. Loss 1 dB; Selectivity: -33dB @ 213 MHz and -28dB @ 233 MHz. SO-239 silver-terfon connectors **\$119.99**

445-10C 440 - 450 MHz. Typical selectivity: -47dB @ 425 MHz, -50dB @ 456 MHz; Loss 1dB. Type-N silver-terfon-gold connectors **\$139.99**

435-10C 430 - 440 MHz **\$139.99**

Upgrade to type-N connectors on 2m and 220 MHz models - add \$10 to price; Special Order

BENCHER, INC.



YA-1 Low Pass Filter - When dealing with a television interference problem, installation of a good lowpass filter like the YA-1 is always the first step to resolve the problem. Frequency: 1.8 to 29.7 MHz; Power Rating: 1,500 Watts continuous, 5,000 Watts Peak; Insertion Loss: Less than 0.2 dB at 29.7 MHz Dim: 9.2"w x 2.5"h x 2.5"d; 1.8 lbs..... **\$85.99**

Palomar Engineers

RFI-4 RF Interference Kit - A selection of ferrite toroids and beads to eliminate RFI from 1-1000 MHz. Contains: 12 beads with 0.2" holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2" holes, 4 with 3/4" holes and 4 split beads (toroids cut in half so you can put them over cables without disconnecting). Two fit over RG-58 (1/4" hole) and two fit over RG-8 (1/2" hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones **\$25.99**

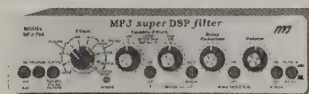
MFJ



701 RFI Free Choke Kit - Eliminate common RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200 MHz. Separates into halves for easy winding of all types of cable: computer ribbon, TV coax, power cord, telephone wire, audio-video cables. Halves mount in snap-together plastic frame. For severe RFI problems and larger cables, multiples can be stacked for more effect (Pack of 4 toroids) **\$14.99**



704 50Ω Low Pass Filter - Install between HF transmitter and antenna to reduce TVI from harmonics that fall in the TV band. Handles 1,000 Watts from 1.8 to 30 MHz **\$49.99**



784B Super DSP Filter - Installs between rig and station speaker. Eliminates heterodynes and reduces Noise and Interference on SSB/CW/ AM and Digital modes. Great for VHF/UHF, EME and satellite work. Tunable FIR filters minimize ring, prevent data errors. Up to 60dB attenuation. Tunable Spotting Tone™ automatically tunes CW filter in narrowest bandwidth. Built-in 2W audio amplifier with AGC. Requires 12VDC Dim: 2.5"h x 9"w x 6"d. **\$229.99**

SGC

70-14 ADSP2 Speaker - ADSP2 is an affordable solution that will deliver top of the line noise reduction for ANY transceiver. The ADSP2 speaker has two convenient push button switches. One button toggles between 0, 13dB & 26dB of Noise Cancellation and the second selects 1 of 3 Bandpass Filters (100, 500 & 1500 Hz). Provides -45dB out of band reduction with one-click operation. The ADSP2 also features a headphone jack for private listening. Requires 12VDC @ 110-500mA. Dim: 3"h x 5"w x 2.5"d; 11 oz..... **\$129.99**



RF Inquiry INC.

CF5KV-UHF Hi-Q Common-Mode™ Filter Install in coax between rig and antenna. Eliminates differential noise energy transfer between transmitter and ground. Covers 1.8-70 MHz with common mode attenuation of -50 to -60dB below 250 MHz and less than 0.1dB insertion loss. Rated for 5KW; Connectors: SO-239 teflon. Dim: 2" dia. x 12.6" long; 1.3 lb **Closeout \$124.99**





DSP-599ZX Noise Filter - Digital Signal Processing provides superior reduction of QRM and QRN. Examines and measures signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in clarity to fluttery or distorted SSB signals. Incorporates the newest high speed CPU that gives unparalleled features and is field upgradable.

Exact filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz to 600 Hz; Center frequencies 200-2150 Hz - wider filters allow easy tuning and listening to multiple CW signals simultaneously; Data filters: RTTY (two methods of use), AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER; Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator for maintenance and set-up of radio audio circuits..... **\$436.99**



ANC-4 Antenna Noise Canceller and Diversity Combiner - Works with any transceiver (250W or less) or receiver from 500 kHz to 80 MHz. Reduces or eliminates locally-generated Power line, Computer and TV noise. It works by cancelling noise before it affects the receiver AGC circuits. Connects between your antenna and receiver. A second antenna acts as a noise pickup. The front panel controls allow adjustment of signal phase and magnitude from the two antennas to effect noise cancellation. Frequently, reception of signals below the noise level is possible. The ANC-4 can also operate as an active antenna using a noise antenna and noise gain control to amplify antenna output. And, it can be used as a diversity combiner to pick up weak signals or null interfering signals. Requires 11-16V DC @ 300 ma. Dim: 1.7" h x 6" w x 4.3" d; 2 lbs.. **\$209.99**

ARRL HF Digital Handbook

Third edition, all the information you need to get on the air and enjoy the fascinating world of HF digital communications. All it takes is an HF SSB radio, your sound-card equipped computer and external multi-mode processor; Assemble your digital station; Operate PSK-31; Chase DX and contest contacts with RTTY; Connect to the internet; Explore other digital modes and more! 190 pages.....ARR 9159 **\$19.95**



MFJ ENTERPRISES, INC.



1273B Sound Card Interface - A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug..... ea. **\$59.99**



1278B Multi-mode Data Controller 10 modes: PACTOR, 16-level FAX, color, SSTV, PACKET, AMTOR, RTTY, ASCII, CW Navtex & Memory keyer. Enhanced mailbox; 32K RAM; 16-gray level modem; 20 LED tone indicator; MARS mode; Internal modem header; 10 program message buffers; Dual ports; KISS; Host mode; Threshold control; RS-232/TTL ports; 12 VDC. Dim: 9.5" w x 9.5" d x 1.5" h..... **Closeout \$279.99**



1272 TNC Switch Push button selection for voice or digital. You specify the radio and TNC connection. Multiple models available... **\$39.99**



1275/1275M Sound Card Interface Connect between a transceiver and computer and enjoy all Digital modes without additional equipment. Operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW meteor scatter, contest voice keying, contest memory keyer, etc. Internal jumpers program mic wiring for any radio. Includes audio cables, power plug and a CD with a collection of the most popular amateur radio software to operate the digital modes. Requires 12VDC (110 VAC with optional adapter). Use model **1275** for 8-pin round mic plug or model **1275M** for 8-pin modular (RJ-45) ea. **\$99.99**



1279 Super Sound Card Interface - This interface has all of the features of the MFJ-1275 above, plus: Auxiliary input jack, allows switching of a sound card from the 1279 to something else. No more plugging and unplugging! Direct CW/FSK keying jack, allows direct CW or FSK keying; Headphone jack, use stereo headphones, also turns off external speaker; Plug in a footswitch or other for PTT switch when not using VOX; Plug and Play; includes software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round mic plug or model **1279M** for 8-pin modular (RJ-45) mic plug..... ea. **\$129.99**

AOR



ARD-9800 Digital Voice and Image Interface Use conventional analog voice transceiver for digital voice communications, data and images while maintaining analog capabilities. No modifications, simply connect between mic and jack. Operates with transceiver in SSB mode. Automatic voice signal detector recognizes received signal as analog or digital, automatically switching to appropriate mode. Uses Open Digital Protocol, use is permitted on US amateur bands. Send and receive SSTV images in digital mode. Built-in video output connector allows external TV monitor viewing. Operate high speed data on HF band at 3600bps. Operates on 10-16VDC @ 200mA. Dim: 3.94" w x 1.26" h x 6.14" d..... **\$549.99**



TDF-370 Multi-Media Terminal with DSP

Listen to amazingly clear audio, transmit and receive PSK31 and RTTY, apply potent filtering and hear "weak ones" others may miss. Digital modes without a PC! Use powerful DSP

noise reduction and filtering, including Fast Fourier Transform. Auto-notch function; Enhance audio reception of SSB and CW; Monitor SSB and CW in derived "stereo"; Decode and display PSK31 or RTTY on the LCD; Enhance transmitted audio with 8 channels of mic equalization; Digital voice recorder; 2 selectable front panel inputs; Six outputs: phone, stereo headphones (included) internal or external speaker, mic, PTT and COM; Requires 4 AAs, NiCads or NiMHs or regulated external 9-15 VDC. Dim: 3.3" h x 4.3" w x 6.2" d; 12.3 oz..... **\$299.99**

info@aorusa.com



RIGblaster

The easiest way to connect a radio to a PC to operate old or new, analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, come with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Five models to choose from for your operating needs. Use with any modern computer and radio with a matching mic connector.

RB/PR/C RIGblaster Pro The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK and CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. 8-pin and RJ45 radios as supplied **\$249.99**

RB/PL/C RIGblaster PLUS Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ45 radios as supplied **\$139.99**

RB/NO/CU RIGblaster Nomic 8-pin/RJ-45 Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your mic. whenever you wish to use sound card software. 8-pin or RJ-45 radios as supplied **\$59.99**



We accept I.M.P.A.C.® Government Credit Cards



External DSP HF Radio Modem

Operator:

**PACTOR / RTTY / ASCII
AMTOR / CLOVER II** **\$395.99**
Terminal Software Included

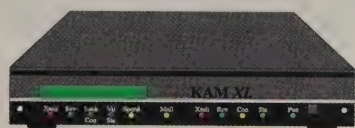
More info on DXP-38 at: www.halcom.com

MULTI-MODE DATA CONTROLLERS

KPC-3 Plus/128 1200 bps; Packet, GPS/APRS, Host, KISS and WEFAK modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM **\$198.99**

9612 Plus/128 1200 port and second port of 4800-38,400 bps; Most modes/capabilities of the KPC-3 Plus and POCASG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability **\$388.99**

KAM 98 Single port multimode TNC for HF and VHF use; Packet, GPS/APRS, Host, KISS, WEFAK, CW, RTTY, AMTOR, PACTOR, G-TOR®, Free signal detection for HF email, A/D inputs/TTL outputs; HC11 for more processing power to accommodate future upgrades; Wider range of speeds; use 1200 bps packet on 10 meters **\$449.99**



KAM XL Multi-Mode DSP Controller - Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; Pactor I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAK; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode; KISS **\$409.99**

Get the Right Answers...

Call AES Today!

RTTY-1 Tuning Indicator

Easy to use, very accurate, works with any FSK radio modem. Crossed LED bars show correct tuning for FSK modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode, HF Packet. Filters: 2125 Hz (Mark), 2295 Hz (Space) Dim: 5.5" w x 3.75" h x 1.25" d; 0.5 lb. Requires +9V-18V DC @ 160 ma **\$99.99**

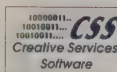


PK-232/PSK Multimode Data Controller The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive Pactor filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timeswave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25" d x 2.5" h; 3 lbs **\$531.99**

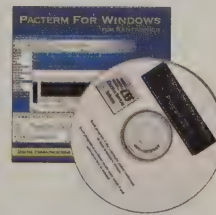


PK-96/100K 9600/1200 packet TNC 9600 and 1200bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP; TheNet and NetRom; Separate external TX for 9600/1200bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and Mac programs available; Requires 12V DC. Dim: 6.25" w x 7.5" d x 1.375" h; 1.25 lbs. 128K RAM **\$219.99**

AC-5 120V Power Supply Provides 13.8VDC @ 1.7A for the DSP-599zx, PK-232/DSP, DSP-2232, DSP-1232, DSP-232, PK-900, etc. **\$24.99**



PKTERM 3.0 and **PACTERM 3.0** for Windows The latest CSS 32-bit terminal software for Timeswave/AEA and Kantronics TNCs and computer soundcard interfaces. True multi-tasking in Windows using the standard Windows interface for ease of use. Operates the digital modes (PSK-3, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF/HF Packet) and works with single or dual port TNCs or with computer's soundcard and interface. Requires Timeswave/AEA host mode or Kantronics TNC host mode for TNC interface. For soundcard-only mode use any of the popular soundcard interfaces like HamHub, RIGblaster or MFJ 1275/79. Easy logging with built-in logbook feature. CD ROM.



PACTERM FOR WI Kantronics TNCs... **\$99.99**
PKTERM FOR WIN Timeswave/AEA PK-12, 96 and 232 TNCs **\$99.99**

MFJ CLOCKS

105C 24 Hour Quartz Wall Clock Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery **\$19.99**



Small 24-Hour Clocks - A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B (left) Single, 2.25" w x 1" h x 2" d **\$9.99**

108B (right) Dual, 4.25" w x 1" h x 2" d **\$19.99**

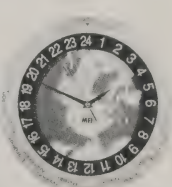


112B DX'er's World Map Clock - Shows time at any QTH throughout the world on an attractive LCD world map. Also shows day, month, date and year. Choose 12 or 24 hour. Daylight saving time feature. Grey, backlight for night viewing Dim: 4.25" w x 3.3" h x 2.25" d **\$24.99**



113 12/24 Hour Desk Clock - Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9" w x 4" h x 2.5" d **\$19.99**

115 WORLD Map 24 hour Quartz Wall Clock Set it to GMT and you'll know what time it is in designated areas of the world any time of day. Premier cities outline the trim of the 12" diameter. Operates on "AA" battery (not included) .. **\$24.99**



116DC 12 VDC, 12 Hour LCD Travel Alarm Clock - Great for motor homes and trucks. Green 5/8" LED digits show 12-hour format.

Ten minute ID buzz; two-level alarm; 9V back-up battery; Power cord with cigarette lighter adapter. Dim: 4.5" w x 2" h x 4" d; 17 oz **Closeout \$9.99**



118 Jumbo LCD™ 24 or 12-hour clock 1.25" high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calendar and flip stand. Uses one "AAA" battery. Dim: 5.75" h x 3.375" w x 0.5" d **\$24.99**

123 Eternity Atomic Clock™

Solar powered and automatic time set by radio signals received from WWVB. Large (6.75" w x 2" h) LCD display, selectable 12/24 hour time format, digital calendar. Ordinary room light powers the solar cells and also replenishes a built-in rechargeable battery; also uses (2) "AAA" batteries (not included) for back-up power. Dim: 9" w x 3.5" h **\$79.99**

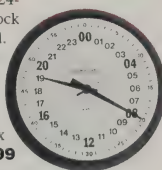


125 DX'er's Dream 24-hour Quartz Wall Clock 12 in. diameter face shows 24-hour format with small day, date and 12 hour indicators. All dials set independently as desired. Uses a single "AA" battery **\$29.99**

Benjamin Michael Industries INC.

973A - Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. dial allows excellent visibility. Black textured case and glass crystal. Operates on one AA battery Dim: 14" dia. x 1.75" d **\$49.99**

972AD Same but 12/24 hour dial **\$27.99**



RCA

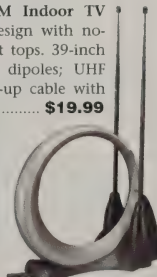
CLOCK RADIO

RP-3710 Dual Wake Digital Tuning AM/ FM Clock Radio - Display indicates two independent "wake time" readouts. Graduawake™ ramp-up alarm; Large, backlit LCD, brightness control; Snooze; 11 presets; Sleep to one station, wake to another; 9V back-up battery (not included) holds time and alarm settings in memory for 8 hours; Operates on 2 AAs, included. Dim: 5.25" w x 4" h x 3.75" d **\$24.99**



AUDIO/VIDEO

ANT-1020 VHF/UHF/ FM Indoor TV Antenna Contemporary design with no-screw pad to protect cabinet tops. 39-inch retractable and adjustable dipoles; UHF loop; Integrated 75Ω hook-up cable with "F" connector **\$19.99**



TA-25 Eagle Aspen™ TV Distribution Amplifier Excellent for home and small MATV systems! UHF, VHF, FM; 54-890 MHz; Low noise, typical 6-7dB; 25dB gain; Switchable FM trap; Lightning protect. Dim: 6" w x 3" h x 1.75" d; 117VAC; 4.5W ... **\$19.99**

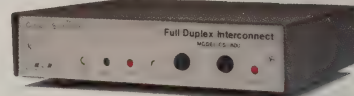


72887 SUPERADIO III™ High Performance, Long Range AM/FM Portable Radio - Tuned RF stages on both AM and FM; 8 in. FM swivel whip antenna; 7.875 in. AM ferrite rod antenna; Ceramic IF filter, plus 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5" woofer, plus 2" tweeter; Separate bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; Headphone jack; AM/FM external antenna terminals; Operates on AC power or six D-cell batteries; Fold down carry handle; Metal speaker grille. Dim: 12.75" w x 9" h x 3.25" d; 5 lbs **\$49.99**



INTERCONNECTS

Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT. Each contains powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerated tone or pulse dialout, CW ID and toll restrict.



CS-800 Full Duplex Interconnect Operates full or semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. Dim: 7.875" w x 7.5" d x 2" h; 2.5 lbs **\$369.99**



CS-900 Control Station Simplex Interconnect For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC. Dim: 7.9" w x 7.5" d x 2" h; 2.5 lbs **\$369.99**

ORDER ON-LINE!



STEREO ANTENNAS

TOWER AM-FM Tower Antenna – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter..... **\$24.99**



next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **\$49.99**



PI-B Powered Indoor AM/FM Antenna – Improves FM (88-108 MHz) performance by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier with gain control. An adjustable position AM loop provides great broadcast band reception. FM output impedance: 75Ω (300Ω with supplied matching transformer), AM: 300Ω. Dim: 6" h x 6" w x 1.5" d. AC power adapter included..... **\$49.99**



TV-55 Amplified Out/Indoor TV Antenna – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amp. can be switched in or out for best reception. Mounts in or outdoors. Includes a 12V adapter and mounting hardware. Dim: 46" w x 3.5" h x 2.25" d..... **\$89.99**



TV-42 Amplified Clip-On Antenna – Attaches quickly to any 18 in. satellite dish and adds reception of all local VHF/ UHF channels. Covers channels 2-83 and FM broadcast. Built-in internal 10dB gain amplifier to minimize signal loss, allowing distribution to multiple TV's. For Dual-LNB dishes, it has two built-in duplexers, providing more than one TV with DSS and VHF/UHF signals. Powered thru the cable by a DSS receiver. Durable, powder-coated element and weather-proof amplifier housing. Dim: 10.25" h x 21.25" w x 3.5" d..... **\$49.99**

TV-42 Amplified Clip-On Antenna – Attaches quickly to any 18 in. satellite dish and adds reception of all local VHF/ UHF channels. Covers channels 2-83 and FM broadcast. Built-in internal 10dB gain amplifier to minimize signal loss, allowing distribution to multiple TV's. For Dual-LNB dishes, it has two built-in duplexers, providing more than one TV with DSS and VHF/UHF signals. Powered thru the cable by a DSS receiver. Durable, powder-coated element and weather-proof amplifier housing. Dim: 10.25" h x 21.25" w x 3.5" d..... **\$49.99**



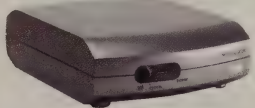
HDTV-1 Indoor UHF/VHF/HDTV Antenna Unique design utilizing long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts, allowing reception of more stations. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5" w x 9.1" h x 16.5" d; 42" high with dipoles extended..... **\$29.99**



MOD-41 RF Modulator – Connect up to four A/V sources to any TV with no available A/V input jacks. Similar to VS-MOD4 below, without S-Video jacks or IR remote. Dim: 6.5" w x 2" h x 4.25" d... **\$39.99**



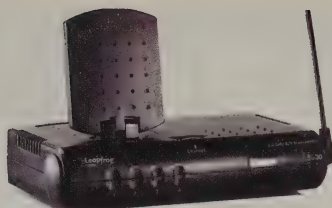
VS4-MOD RF Modulator-Plus – Allows connections of multiple A/V components to a TV with no available A/V (RCA) input jacks. Provides inputs for up to four A/V sources (video games, DVDs, VCRs, VCRs, satellite receivers and camcorders). Converts A/V sources to VHF for viewing on channel 3 or 4 on any TV. Compatible with your IR remote control to remotely switch between A/V sources. Has "F-type" antenna/cable inputs and RCA/S-Video input/output jacks. Dim: 9.75" w x 2" h x 5" d. AC wall adapter included **\$49.99**



VR-1 TV Volume Regulator – Delivers a consistent audio level during commercial breaks, while channel surfing or changing between A/V sources. Advanced DSP automatically adjusts sound levels while noise reduction reduces any 'hiss' present in audio and articulates quiet scenes to a level that you can enjoy. Simply plug and play, one time installation. Dim: 3.18" w x 3.87" h x 1.43" d **\$49.99**



AVW-089 3-Channel Audio/Video Switcher Accepts audio (left/right) and video input from 3 sources switchable to a single output..... **\$8.99**



LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits a 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5" h x 7" w x 4.8" d **\$99.99**

LF-IRX Leap Frog Remote Control Range Extender– Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5" h x 2.5" w x 4" d **\$39.99**



TSP-6 Surge Protector Protects satellite, antenna, cable, and phone lines from surge and spike damage while providing constant EMI/RFI noise filtering for 8 AC outlets. Automatically shuts off if protection fails. Resettable circuit breaker; Surge and ground protection LEDs; 6' power cord with slim-line plug, 6' TV/satellite and phone cables; Rated 125V @ 15 amps **Closeout \$29.99**



TV ANTENNAS

PROSTAR® 1000 VHF/UHF/FM Antennas Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

- PR-7010** Metropolitan 22 active elements (9 VHF, 13 UHF); 66.5" boom **\$39.99**
- PR-7032** Far Suburban 33 active elements (13 VHF, 20 UHF); 103.25" boom **\$64.99**
- PR-7042** Fringe (top) 43 active elements (17 VHF, 26 UHF); 149.75" boom **\$99.99**



ELK ANTENNAS

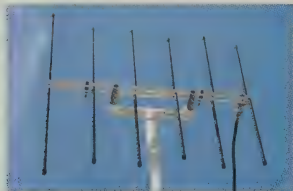
Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic Dual band operation with NO duplexer required and only one feedline. Use it with an HT for satellite contacts. Changing polarity is easily, just twist the mounting assembly to change from vertical to horizontal. Quick and easy assembly and disassembly for portability; color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom; black anodized aluminum elements; stainless hardware; 5 elements; 6.8dBd (2M), 7dBd (440) gain; 144-148, 440-450 MHz 1:1 SWR; 20+dB front-to-back ratio; 200W (2M), 100W (440); 24" boom; 1.3 lb **\$74.99**



440-LB 440 MHz Log Periodic The latest model with increased gain and wide bandwidth. Its really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life; 8 elements; 8dB gain; 420-450 MHz; 1:1 to 1.5:1 SWR; 200W; 24" boom; 12 oz **\$64.99**



220-L6 220 MHz Log periodic All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 6 elements; 7.3dBd gain; 222-225 MHz 1:1 SWR; 150W; 28+ dB front-to-back ratio; 24" boom; 1.3 lbs **\$64.99**



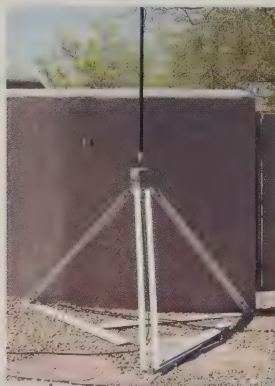
The Antenna with outstanding Performance and Convenience

The OUTbacker system provides efficient, multiband performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.

The Outpost Base Tripod Mount



A convenient way to use mobile antennas in Base or Portable applications with greatly improved efficiency from the 36 x 3 inch foldout ground feet that form a large capacitor with the earth. Makes an ideal condo, limited space antenna System that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds; no holes, no concrete required.

Pictured with an OUTbacker antenna installed, but not included.

See Price Guide for listing of all OUTbackers and Accessories

Find detailed information at:
outbackerantennas.com



We accept I.M.P.A.C.® Government Credit Cards



W4RT
Electronics



Antenna BOSS Motorized Antenna Controller for Yaesu, Radios – Makes essentially any motorized antenna “look like” an ATAS-100/120 to the FT-100/D, 847, 857 & 897 radios, allowing use of the radio's TUNE button for automatic tuning (6-40M). Works with 6-12 VDC motors drawing <750 mA running, no special sensors in antenna required, & no programming or computer required. BOSS works to full legal limit as well as with antennas having a shunt coil. Radio powers both the antenna motor and the BOSS **\$149.99**

Antenna BOSS II Motorized Antenna Controller for ICOM, Yaesu, & Kenwood Radios – Allows essentially any 6-160M motorized antenna to interface with ICOM radios that work with the AH-4 tuner such as the IC-706, MKII, and MKIIG. Works with 12 VDC motors drawing <750 mA running, no special sensors in antenna required, & no programming or computer required. Works with radio's TUNE button. BOSS II measures frequency and SWR. Advanced algorithms provide excellent autotuning (tuning) and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable to connect with IC-706 series radios **\$149.99**

To use the BOSS II with Kenwood radios such as the TS-50 and TS-480 requires the LDG K-OTT and the W4R KB2 cable. Tuning is activated by pressing the radio's TUNE button (tuning on 6M if radio is external-tuner capable on this band).

LDG K-OTT... \$59.99 / W4R KB-2 ... \$10.99

To use the BOSS II with Yaesu radios such as the FT-100/D, 857 and 897, requires the W4RT-modified LDG Y-OTT (YB-OTT) and the YB2 cable. Tuning is activated by pressing the supplied TUNE button.

YB-OTT... \$59.99 / YB-2 ... \$10.99



One-Plug Filters – Direct plug-in CW and SSB filters for Yaesu FT-817, 857 and 897 radios. The 500-Hz CW filter contains a 7-pole Collins Mechanical Filter essentially identical in performance to the Yaesu YF-122C. The 2.3-kHz SSB filter contains a 10-pole Collins Mechanical Filter essentially identical in performance to the Yaesu YF-122S. Proper filter termination is an integral part of the W4RT filter assembly. Connectors like those on the YF-122 allow you to install and remove these filters just as you do with the Yaesu filter. Filter units contains the coding for the FT-857 or FT-897 to recognize it as a 500 Hz or 2.3 kHz filter.

OPF-CW ... \$114.99 / OPF-SSB ... \$129.99

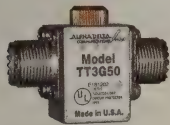
OBP-STD Speech Compressor – One BIG Punch (OBP) is for the Yaesu MH-31 microphone used with Yaesu radios such as the FT-817, 847, 857 and 897. AF-based speech compressor specifically configured to provide a remarkable increase in talk power while maintaining good audio quality (articulation). It mounts inside the MH-31, requires no additional electrical power, and turns on or off by using the MH-31's TONE switch. Measurements using a stock FT-817 and a MH-31 containing the OBP showed that the average talk power increased by about 5 dB. Works with most microphones having 5 VDC available **\$49.99**

OBP-UNIV – For microphones having 7-12 VDC available, such as the Yaesu MH-36 used with the FT-100/D or the ICOM HM-103 with the IC-706 **\$49.99**

Effective Atmospheric Surge Voltage Protection!

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage... and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.



**Lightning
Surge/EMI
Protectors**

UL LISTED - Certified protection for your equipment from lightning and static charges much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ - two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you are running control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru, instead of having to "wire around" as with some other DC-blocked designs.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.
Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

ATT-3G50* has Type-N females connectors, rated up to 3.0 GHz and 200 Watts **\$59.99**

ATT-3G50U* has UHF female connectors, rated up to 500 MHz and 200 Watts **\$49.99**

**200 Watt version available at No Extra Cost - specify ATT-3G50HP or ATT-3G50UHP*

KENT Keys by ALPHA DELTA



Produced by R.A. Kent Engineers for Alpha Delta. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.

SK-1 Straight Morse Key **\$129.99**

SP-1 Single Paddle Morse Key **\$139.99**

TP-1 Twin Iambic Morse Paddle **\$149.99**

VK-1 The "Vail Lever Correspondent" Key
A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized - a collectable!... **\$179.99**

Lightning Surge Protected Coaxial Switches



- High Quality custom design featuring a rugged Cast Aluminum Housing.
- Constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies.
- Solid, positive switching
- Rated for Full Legal power.
- A solid positive detent roller bearing switch snaps positively into each position.
- An Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection. If needed, it is easily replaced from the front without disassembly.
- Automatic grounding of the unused antennas to reduce antenna interaction, noise and the effects of static charges and lightning.

DELTA-2 2-position, with SO-239 connectors and rated for operation up to 500 MHz **\$49.99**

DELTA-2/N 2-position, with N-type connectors, rated for operation up to 1.3 GHz **\$64.99**

DELTA-4 4-position, with SO-239 connectors, rated for operation up to 500 MHz **\$79.99**

DELTA-4/N 4-position, with N-type connectors, rated for operation up to 1.3 GHz **\$89.99**

Antenna Insulator Kit with Surge Protection



DELTA-C A center insulator and two end insulators. Use for dipoles and wire antenna using either coaxial cable or balanced feed line. Rugged - highest quality, made from an virtually unbreakable UV/RF resistant material. Rated to handle full legal power. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. An easily replaceable built-in Arc-Plug® in the center insulator provides surge protection from lightning and static charges **\$29.99**

DELTA-CIN End Insulator only ea. **\$1.99**

SEP Replacement Arc-Plug® cartridge **\$15.99**

Limited Space Slopers



- Proven 1/4-wave sloper DX Performance
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50Ω coaxial feed, no tuner required. Go to www.alphadelta.com for sloper installation.

DX-A A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX fire-power of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an Inverted-V. Legs are 67 ft. and 55 ft. long **\$70.99**

DX-B A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an Inverted V. Convenient limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above ground... **\$80.99**

Shortened Multibanders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated Full Power.
- Direct 50Ω coaxial feed, no tuner required except for extended frequency coverage.
- Factory assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Uses a DELTA-C Static Protected center insulator and DELTA-CIN end insulators.
- Install Horizontally as an Inverted-V.

DX-CC 80-40-20-15-10M, 82 ft. long **\$130.99**

DX-DD 80-40M, 82 ft. long **\$100.99**

DX-EE 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long **\$110.99**

DX-LB 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Full band coverage using a wide range antenna tuner **\$130.99**

DX-LB PLUS Same as DX-LB above, but adds 20-10M with parallel wires **\$160.99**

Full-Size Monoband Dipoles



- 50Ω coax feed, no traps, handles Full Power
- Install Horizontally or as an Inverted V
- Rugged, full-size performance
- Factory assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft of nylon support rope.

DX-80 75/80 meters, 134 ft. long **\$58.99**

DX-40 40 meters, 67 ft. long **\$48.99**

DX-20 20 meters, 34 ft. long **\$48.99**

ALPHA DELTA COMMUNICATIONS, INC.



www.alphadelta.com

THE SMILEY ANTENNA CO.



HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

TS Thin Stick 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands **\$16.99**

SS-II Super Stick II (A) 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **\$19.99**

SS-II/COMBO Super Stick II Combo Same as above, but includes a 2m stubby duck..... **\$29.99**

5/8 SLD-2 5/8 Slim Duck (B) 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long **\$19.99**

5/8 SLD-2 COMBO 5/8 Slim Duck Combo As above, but includes a 2m stubby duck..... **\$29.99**

RD-2 Regular Duck (C) For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs..... **\$15.99**

RDS-2 Stubby Duck (D) Tuned, for 2m. **\$15.99**

SS-III Super Stick III 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain extended; usable collapsed, or a one-section 1/4 wave. 36" extended, 8" collapsed..... **\$19.99**

SS-III/COMBO Super Stick III/Combo As above, but includes a 220 MHz stubby duck..... **\$29.99**

5/8 SLD-220 5/8 Slim Duck (E) 220 MHz, 7db gain, flexible base loaded 9" antenna..... **\$19.99**

5/8 SLD-220 COM 5/8 Slim Duck Combo Same as above, but includes a 220 MHz stubby duck antenna **\$29.99**

RD-220 Reg. Duck (F) 220 MHz, tuned.. **\$15.99**

RDS-220 Stubby Duck (G) As above..... **\$15.99**

SS-IV Super Stick IV (H) 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5 3/4" collapsed..... **\$19.99**

SS-IV/COMBO Super Stick IV Combo Same as above, plus has 440 MHz stubby duck..... **\$29.99**

SL-440 Slimline (I) 440 MHz, 1/2-wave flex **\$15.99**

5/8 SLD-440 5/8 Slim Duck (J) 440 MHz, 7db gain, flexible base loaded 5" antenna..... **\$19.99**

5/8 SLD-440 COM 5/8 Slim Duck Combo As above, plus has a 440 MHz stubby..... **\$29.99**

RDS-440 Stubby (K) 440 MHz, tuned..... **\$15.99**

RDMD-440 Mini Duck (L) As above **\$15.99**

FLX 1/2 WAV-2M Flex-Coil (M) 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended **\$25.99**

270A (N) Telescoping 2m/440 gain antenna. 1/4-wave (2m) 5/8-wave (440 MHz). The 270A is also available with SMA.....ea. **\$19.99**

TAQ 1/4-wave whip antenna, specify for 2M, 220 or 440 MHzeach **\$10.99**

PREMIER
communications

HANDHELD ANTENNAS

RD-78 RD-8 RD-98 RD-9 AL-800

RD-2 Short Duck Antenna (not pictured) Perfect fit for the new micro-sized handhelds such as the VX-1R, VX-5R, IC-Q7A, etc. Only 2" tall, but gives big performance. Operates on 2M/440 MHz and works for out of band scanning. BNC connector. **\$14.99**

RD-2SMA Same as RD-2, SMA conn **\$15.99**

RD-78 Extended Duck Antenna 15" tall, provides an improvement over stock, steel, spring-type antennas. Hit local repeaters solidly, access distant machines, talk extended simplex. Has 2.5dbi gain on VHF, 3.2dbi on UHF. Also includes 800/900 MHz receive capability. Flexible, but doesn't droop. Gold-plated BNC connector **\$19.99**

RD-8 Duck Antenna 6.5" tall and very flexible. Improves your signal over any manufacturer's stock duck. The perfect companion to any 2M/440 MHz handheld, including those with 800/900 MHz receive. Gold-plated BNC connector..... **\$14.99**

RD-98 Thin Whip Antenna A 2M/440 MHz HT antenna that is 17" long with a diameter of only 1/16th of an inch. Made of extremely strong and very flexible material - ties in a knot without damage! BNC connector **\$24.99**

RD-98SMA Same as RD-98, SMA conn... **\$27.99**

RD-9 Flexible Duck Antenna An extremely flexible 7" tall rubber duck that will improve handheld performance on both 2M and 440 MHz. while providing 800/900 MHz receive capability. Connector is protected by a moisture shield and is molded to sit firmly on the connector, preventing excessive wear and tear. BNC connector **\$18.99**

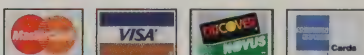
RD-9SMA Same as RD-9, SMA conn **\$20.99**

AL-800 Telescoping Antenna Useful whenever you need extra performance for satellite work, or when on the fringes of a repeater. Telescopes to 34" or collapses to 10". Has 3.2dbi gain on VHF, 5.5dbi on UHF. For convenience and/or shorter range operation, the telescoping section unscrews and may be replaced with the included 9" rat tail. Gold-plated BNC connector **\$29.99**

Arrow Antenna

146/437-10 KKSYY, pictured at the left, working VE6EGN on the AO27 satellite using a Yaesu VX-1R, with 500mW output, connected to an Arrow 146/437-10. The Arrow is designed specifically to allow portable satellite operation using just an HT. This means it's engineered to provide maximum gain and efficiency within a small size and weight. The boom construction is 3/4" square aluminum stock, 37.5" long with a foam grip on the back end for comfort. The three VHF and seven UHF Gamma matched elements with separate BNC connectors are aluminum arrow shafts which are strong and lightweight, and plastic tipped for safety..... **\$73**

146/437-10BP Split boom model..... **\$79**



We accept I.M.P.A.C.® Government Credit Cards

AOR

LA-350 Active Shortwave Loop - Two 12" diameter interchangeable antenna elements cover 3.0-9.0 and 9.0-30 MHz. Rotates to enhance reception and null interference. Built-in 13.5 dB gain amplifier and tuning control to peak performance. Supplied with two elements, AC adapter, and 20 in. cable with BNC connector Milwaukee only **\$339.99**



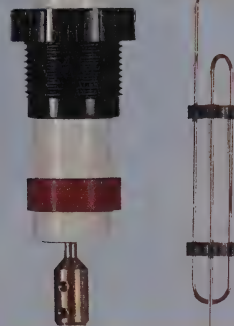


NEW from Kuranishi
Instruments LTD, Japan
**BR-210 Professional-Grade
SWR/Antenna Analyzer**

Perform SWR and impedance measurements with confidence! The BR-210 is a laboratory grade precision test instrument providing a wide-band RF signal source for analyzing antenna systems and other equipment without the need for a separate transmitter. • 1.8-170MHz • High precision meter • 500mW 50 Ohm dummy load included • Impedance measurements: 12.5 - 300 Ohm • Connector: SO-239

COMET & Maldol

Dualband and Multiband Base Antennas



**Wi-Fi/802.11b/LAN/HSMM
Access Point Antennas**

COMET GP-15 • Tri-band 52/146/446MHz Base Repeater Antenna
• Gain & Wave: 52MHz 3.0dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239
• 2MHz band-width after tuning (5M) • Construction: Single-piece fiberglass

COMET CX-333 • Tri-band 146/220/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3
• 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz.
• Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 • Dual-band 146/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 4.5dBi 5/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 • Dual-band 146/446MHz Base Repeater Antenna
• Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

NEW

Maldol NEW HUY-8 Ultra-compact 8 band HF/VHF/UHF vertical antenna
80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain: 1dBi • 1/2 wave-length: 2.15dBi • Gain 70cm: Two 5/8 waves in phase: 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M-70cm: 150W FM • Conn: SO-239 • Height: Only 8'6" • Weight: 5lbs. 7ozs.

COMET GP-9/GP-9N • Dual-band 146/446MHz Base Repeater Antenna • BEST SELLER!
• Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 17'8" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

COMET GP-24 The standard high gain 2.4GHz access point antenna for maximum range/signal strength • 2400-2500MHz • Gain: 15.4dBi • Length: 5'10" • Weight: 2lbs. 9ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

COMET GP-24-3 The same physical high gain 2.4GHz antenna as the GP-24, but with a 3-degree electrical downtilt to concentrate the signal to the horizon and below AES Special Order

COMET GP-24-S Medium gain access point antenna for applications where maximum distance is not as important as a solid signal around and directly below the antenna. • Gain: 9.9dBi • Length: 3'9" • Weight: 1lb. 14ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

AES Special Order



For a complete catalog, call or visit your local dealer. Or, contact NCG Company.
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Driven to Perform, In **STYLE!**

COMET and **Maldol Mobile**

NEW

Maldol NEW MH-511 • Tri-band 6M/2M/70cm HT Antenna
• Length: 4" • Conn: Male SMA

Maldol MH-510 • Tri-band 6M/2M/70cm HT Antenna
• Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 • Tri-band 2M/220/70cm HT Antenna
• Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 • Tri-band 2M/220/70cm HT Antenna
• Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

NEW

Maldol AX-75 2M/70cm dual-band shown mounted on the Comet **CP-5M** heavy-duty universal lip mount. Several antenna connector versions are available, all with 16 ft. of 2-step coax and terminating in a PL-259 connector.
Coax max pwr: HF/130W, VHF/75W, UHF/45W

COMET CP-5M SO-239 conn
COMET CP-5NMO NMO conn
COMET CP-5 3/8-24 3/8 x 24 conn

Maldol NEW EX-510B/EX-510BNMO • Tri-band 6M/2M/70cm with fold-over
• Gain & Wave: 52MHz 1/4 wave 146MHz 1/2 wave 446MHz 5.5dBi 5/8 wave x 2
• VSWR: Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SB-15 • Tri-band 6M/2M/70cm with fold-over
• Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

NEW UHV-4 • Quad-band 10M/6M/2M/70cm with fold-over hinge
• Gain & Wave: 10M & 6M 1/4 wave 2M 2.15dBi 1/2 wave 70cm 5.5dBi 5/8 wave x 2
• Length: 55" • Max Power: 10M 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259

COMET UHV-6 • HF/6M/2M/70cm Mobile Antenna • 80°/20°/17°/40°/15°/10°/6°/2°/70cm Mobile antenna with fold-over hinge
• Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • *1.14 optional 20M coil • *1.38 optional 17M coil • *1.3-3.5 optional 75/80M coil • Features: 6M/2M/70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in
• Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

COMET UHV-6
Fold-Over Position

NEW

Maldol NEW HMC-6S • *40°/20°/15°/10°/6°/2°/70cm Mobile antenna with fold-over hinge
• Gain & Wave: HF 1/4 wave 2M 2.15dBi 1/2 wave 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM
• *HMC-7C optional 40M coil

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COMET BNC-24 • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC
Super flexible featherweight whip

COMET SMA-24 • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA
Super flexible featherweight whip

COMET SMA-503 • Dual-band 2M/70cm HT Antenna
RX range: 100-1200MHz • Length: 8.75" Conn: SMA

Maldol MH-209 (BNC Conn) • 2M/70cm Dual-band HT Antenna

Maldol MH-209SMA (SMA Conn)

Gain & Wave: 0 1/4 wave • Length: 3" Soft flexible rubber

Driven to Perform, In STYLE!

COMET™ and Maldol Mobile

NEW APEX Series

MALDOL'S Newest Mobiles!
Bright Chrome and Brushed
Aluminum Finish!

Maldol NEW AX-50 • Dual-band 2M/70cm
Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol NEW AX-75 • Dual-band 2M/70cm w/fold-over
Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol NEW AX-95 • Dual-band 2M/70cm w/fold-over
Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10/B-10NMO • Dual-band 146/446MHz cellular look-a-like
Gain & Wave: 146MHz 0dBi 1/4 wave, 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259/B-10NMO NMO • Max Pwr: 50W

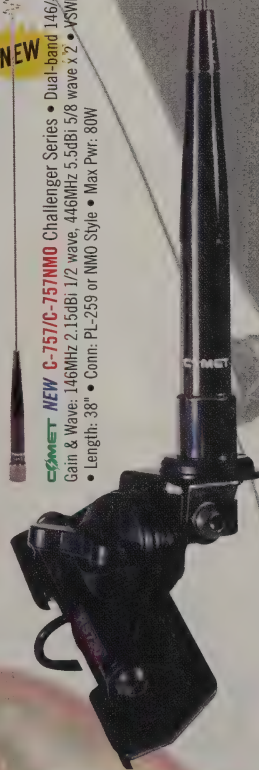
SBB-2/SBB-2NMO • Dual-band 146/446MHz
Gain & Wave: 146MHz 2.15dBi 1/4 wave, 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: PL-259 or NMO Style • Max Pwr: 60W

Maldol NEW EX-107RB/EX-107RBNMO • Dual-band 146/446MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave, 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: PL-259 or NMO Style • Max Pwr: 100W

COMET SBB-5/SBB-5NMO • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 2.5dBi 1/2 wave, 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259/SBB-5NMO NMO • Max Pwr: 120W

COMET SBB-7/SBB-7NMO • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259/SBB-7NMO NMO • Max Pwr: 70W

NEW
COMET NEW C-75/C-75NMO Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 2.15dBi 1/2 wave, 446MHz 5.5dBi 5/8 wave x 2 • VSWR: 1.5:1 or less
Length: 38" • Conn: PL-259 or NMO Style • Max Pwr: 80W



COMET NEW CP-5M, CP-5NMO, CP-5 3/8-24 Universal mount and coax cable combos. (SO-239, NMO, 3/8-24/PL-259) Heavy-duty, adjustable RS-730 trunk/van/SUV/truck door mount and deluxe cable assembly. 16' 6" length w/18" mini RG-188A/U type coax. Max antenna 70".

COMET NEW C-76/C-76NMO Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 3.5dBi 1/2 wave center load, 446MHz 6.0dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less
Length: 40" • Conn: PL-259 or NMO Style • Max Pwr: 80W

NEW

NEW

Challenger Series

COMET'S Newest Mobiles!
Sleek, Super-Flexible,
Dark Chrome Finish



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COMETTM & Maldol

specialists in "No Holes Mobile Mounts!"

CP Series Universal Lip Mounts

Four adjustment planes, four large setscrews holds them securely in place on virtually any lip 1/4" thick or less. Use on trunk lids, van doors, truck doors, hoods etc. 16' 6" of deluxe coax cable including 18" of mini RG-188A/U style for easy entry thru the weather seal without causing wind noise, water leaks and/or wind noise.

Max antenna size: 70"/16 oz

Max Power: HF 130W VHF 75W UHF 45W



COMET NEW CP-5M
Universal lip mount with coax,
NMO and PL-259 connectors.



COMET NEW CP-5 3/8-24
Universal lip mount with coax,
3/8x24 threaded stud and PL-
259 connectors.

COMET CP-5M Universal lip mount with coax, SO-239 and PL-259 connectors.



Mount: CP5M Antenna: C757



Combine the coax style and length you need with a bracket from below. (assemblies also available with N-connectors)



COMET 3D5M/3D4M Standard low loss cable assembly. Gold plated SO-239/PL-259 connectors. 17' length/13.5" length.



COMET CK-3M5/CK-3M Deluxe cable assembly 17' length including 17" of RG-188A/U for easy entry from a lip mount without causing water leak, wind noise or coax damage. CK-3M 9'9" total length.

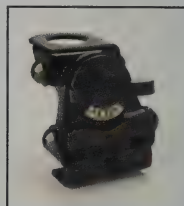
Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects the vehicle paint.



COMET RS-730 Heavy-duty, 3 adjustment planes, up to 70" antenna.



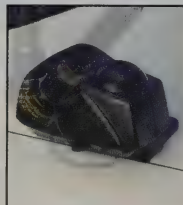
COMET RS-720/RS-720NMO Med-duty, 3 adjustment planes, up to 60" antenna. NMO mount version.



COMET RS-520 Light-duty, 2 adjustment planes, up to 45" antenna.



Maldol PRM-T Heavy-duty, 3 adjustment planes, up to 80" antenna.



Maldol MK-30H 12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.



Maldol EM-600 Light-duty, 2 adjustment planes, up to 40" antenna.

COMET GRB-5M Trunk lip mount, low-profile, black anodized stainless steel. Offset washers provide up to 17 deg. vertical adjustment of antenna. 16'9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weather seal. Gold-plated SO-239/PL-259 connectors.



The rear doors on newer trucks are the perfect place to mount antennas: • No holes to drill • Above roof line • Easy access

When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.



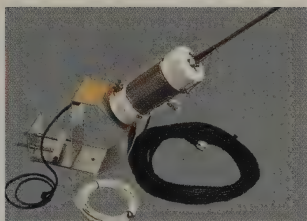
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HT RANGE EXTENDERS

1714 Long Ranger™ 2M Halfwave – For really long range, this MFJ end-fed half-wave is hard to beat. It outperforms a 5/8 wave on a handheld because it does not need a ground plane. The 1714 is shorter (40" extended), lighter, has more gain & places less stress on your antenna connector. When collapsed (10.5"), it performs like a rubber duck... **\$16.99**

1712 Dual Bander™ 2M and 440 MHz – New dual-band handheld or separate units? One antenna fits all. It's 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. 7.25" collapsed, 19" extended..... **\$14.99**

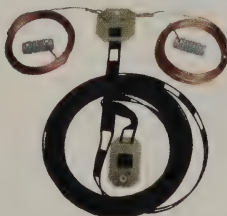
1710 Pocket Linear™ 3/8 Wave, 2M – Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe and noisy, put on the Pocket Linear, extend to 24.5" and carry on your QSO. Pocket clip. 5.25" collapsed..... **\$9.99**



1622 Apartment Antenna (top) Operate 40–10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for storage and carrying. Includes 50 ft. of coaxial cable, RF choke balun, 50' counterpoise wire and safety rope..... **\$99.99**

1624 HF Mini Bugcatcher – Operate 40 thru 6M, up to 300W P.E.P. Tune by changing the tap on the efficient air-wound coil and adjusting the counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Use trunk lip, mirror, luggage or tri-mag mount **\$79.99**

1778 All-Band G5RV Antenna Center fed, 102 ft. flat top with a 300Ω twin-lead feeder system and SO-239 connector to accept the 52Ω coax run from the shack. This unique design covers all bands 80 thru 10 meters with a nominal VSWR, so using an antenna tuner is recommended with most rigs. Also can be installed as an inverted vee or sloper. Works great on 160 meters operating as a Marconi with tuner and good ground. Handles 1500W..... **\$39.99**



1910 Telescoping Fiberglass Mast (right) Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33' and collapses to 3.8' Bottom section 1.75" diameter. 3.3 lbs **\$79.99**

1899T Walkabout™ Multi-band Telescopic Antenna (left) – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5' long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. The whip unscrews from the base matching coil, so, collapsed, the antenna measures only about 8 inches..... **\$69.99**

1661/
1664

1624

MFJ Manually Tuned Screwdriver Antenna – Small and lightweight, supplied with a 4.5' telescopic whip for mobile and a 10' telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5' whip collapses to 23", the 10' whip to 19". Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to existing mount.

1661 40-2M, 12 in.; 1 lb **\$109.99**
1664 80-6M, 15 in.; 1.25 lbs **\$139.99**



1020C Indoor Active Antenna – Covers 300 kHz to 30 MHz in 5 bands. Telescoping (21") antenna provides good receive signal strength. Functions as a preselector when using an external antenna. Improves selectivity, reduces noise. Uses 9V battery, 9-18VDC or 110V. Dim: 5" w x 2" h x 6" d.... **\$79.99**



1024 Outdoor Active Antenna For 50 kHz to 30 MHz. A separate RF amplifier module with 54 in. whip antenna mounts outside and connects by supplied 50 ft. coax to the control inside. Control contains gain control and 20dB attenuator. Select between two receivers and auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with adapter. Dim: Control 6" w x 2" h x 5" d; Module 3" h x 4" w x 4" d **\$129.99**

side and connects by supplied 50 ft. coax to the control inside. Control contains gain control and 20dB attenuator. Select between two receivers and auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with adapter. Dim: Control 6" w x 2" h x 5" d; Module 3" h x 4" w x 4" d **\$129.99**

Miracle Antenna

MIRACLE WHIP All-Band, Rig-Mounted, Tunable Whip – For the FT-817, and other QRP (5W) or SWL rigs. The Miracle Whip is the only completely self-contained, all-band 57" telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on



a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The continuously variable auto transformer design operates effectively without any added counterpoises as the continuously variable nature permits finding a good match when there is no "standard" counterpoise attached. In effect, it uses whatever ground paths are available as a counterpoise **\$129.99**

RUFFRIDER™ MOBILE ANTENNAS

(mounts not included)

This series features quality construction using precision machined components. Designed to battle the elements, rugged rides and highway abuse.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate transmit power at the horizon for maximum distance.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior – 16.5 in. antenna fits in any garage on any vehicle. Unity gain on 2M, 3dB gain on 440 MHz. Handles 100W. No fold-over **\$34.99**

1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz..... **\$49.99**

1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz..... **\$49.99**

1432 Highest Gain – Tall 62.5 in. brute gives you a whopping 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W..... **\$69.99**



6 - 40 Meters



6 - 20 Meters



MA6V Six-Band Restricted-Space Vertical Antenna

NEW



- ▶ Light-weight rugged construction
- ▶ Rapid breakdown for storage or transport
- ▶ No exotic matching networks or tuners
- ▶ Advanced no radial OCFD design

SPECIFICATIONS	R8	R6000	MA6V
Frequency, meters:	6,10,12,15,17,20,30,40	6, 10, 12, 15, 17, 20	6, 10, 12, 15, 17, 20
Gain, dBi:	3	3	1-2
VSWR 2:1 bandwidth, KHz:	40m (150)	6 >1300	
	30m (>50)	10m >1700	
	20m (>350)	12m >100	
	17m (>100)	15m >450	
	15m (>450)	17m >100	
	12m (>100)	20m 300	
	10m (>1500)		
	6m (>1500)		
VSWR at resonance (typical):	1.3:1	1.2:1	1.2:1
Power Rating, Watts PEP:	1500	1500	250
Vertical Radiation angle, deg.:	16	16	
Horizontal rad, deg.:	360	360	
Height, ft(m):	28.5 max. (8.7)	19 (5.8)	14(4.48)
Wind survival:	80 mph	80 mph	80 mph
Weight, lb. (kg):	23 (10.5)	12.5 (5.6)	8.9 (3.13)
Shipping Dimensions:	3-3/4 x 5-1/4 x 84-1/2"	7 x 4-1/2 x 50"	3 x 3 x 80-1/2"

COMPACT HF MULTIBAND BEAM



10 - 20 Meters

MA5B



High Front To Back Ratio
On 10/15/20m

The MA5B, Small Footprint-Big Signal

MA5B. Cushcraft's newest multiband HF antenna provides 5 band operation in a package small enough to mount to a tripod. The MA5B is a design that does not sacrifice ruggedness, performance and power handling for size and ease of installation.

- I am delighted with the performance compared with other HF antennas I have been using!

Bob Swannell, MOBYA

- Thank you for making a fine quality, powerful mini beam that can fit anyones budget.

Phil West, KF2WL

SPECIFICATIONS	MA5B				
Frequency, Bands:	10	12	15	17	20
Elements per Band:	2	1	2	1	2
Gain dBi:	53	2	48	2	36
Front to Back Ratio dB:	10	0	12	0	22
Sidelobe Attenuation dB:	25	25	25	25	25
VSWR 2:1 Bandwidth, KHz:	665	>110	255	>100	90
Longest Element:	17.1ft (5.2m)				
Turning Radius:	88ft (27m)				
Boom Length:	73ft (22m)				
Boom Diameter:	1.5in (3.8cm)				
Max. Wind Surface Area:	3.22 ft ² (3m ²)				
Max. Power Watts PEP:	1200 W				
Weight:	26.5 lbs. (12kg)				

• Easy To Tune
No complicated gamma matches to adjust.

• Low VSWR
Flat response across all 5 bands. VSWR minimum 1.2:1.

• Single Feed Point
Only one coaxial feed line is necessary for all 5 bands.

• Rugged Construction
Cushcraft's tried and true stainless steel mounting hardware and heavy wall aluminum tubing make for a rugged, long lasting antenna.

• Easy To Turn
With a boom length of 7 feet and a longest element length of 17 feet, a lightweight TV rotator will do the trick.

BIG THUNDER TRIBANDER

X7 and MONO BANDER XM240

The X7 Triband Yagi is geared to set new standards in both radiating performance and mechanical reliability. Cushcraft's product development team has employed the latest computer modeling technology to achieve a superior electrical design as well as elegant new mechanical hardware and assembly techniques.

Each mechanical component was designed to 100+ MPH wind survival with a 1.25 safety factor. Traps were eliminated from the high current driven elements and reflectors using the new 4L Log Cell design, which yields virtual monoband performance and maximum power handling capability. Traps are employed only in the lower current directors for increased gain and sharper pattern. The result is a truly high performance antenna which will easily handle the legal limit.



- ▶ New High Efficiency Computer Optimized Design for Maximum Gain and Ultra Clean Radiating Pattern
- ▶ 100+ MPH Construction for Best Reliability and Long Life
- ▶ NEW 4L Log Cell Driven Elements for better VSWR Bandwidth
- ▶ Trapless Driven Elements and Reflectors for Reliable Power Handling
- ▶ Interleaved Element Design for Mono-Band Performance
- ▶ Add-on kits available for 40 Meters

40 Meter Add On Kits

MODEL	X740
Band	7 MHz
Element Length ft. (m)	41 (12.5)
Power (W)	2KW
Weight	20lbs. (9.1 kg)



Element Hardware

Boom-to-Mast

SPECIFICATIONS	X7	XM240
Frequency Coverage (Meters):	10, 15, 20	7.0-7.3
Total number of Elements:	7	2
Maximum Gain (dBi):		
@ One Wavelength	20M 12.5 @ 14 deg 15M 13.0 @ 12 deg 10M 12.9 @ 14 deg	6.0
Maximum Front to Back Ratio (dB):	30	20-25
Number of Elements per Band:	3	
VSWR at Resonance:	1.1:1	1.1:1 (Min)
VSWR 1.5:1 Bandwidth (KHz):	20M 600 15M 750 10M 1700	40M 150
Longest Element, ft. (m):	37.2 (11.33)	
Turning Radius, ft. (m):	20.0 (6.09)	24.3 (7.4)
Boom Length, ft. (m):	18 (5.49)	22 (6.7)
Boom Diameter, in. (cm):	2-1/2 (6.35)	2-1/2 (6.35)
Maximum Mast Diameter OD, in. (cm):	2-1/2 (6.35)	2-1/2 (6.35)
Maximum Wind Survival, mph (kph):	>100 (>161)	>100 (>161)
Maximum Wind Surface Area, ft ² (m ²):	7.9 (.73)	5.5 (.51)
Windload @ 80 mph, lb (kg):	202 (92)	142 (64.4)
Maximum Power Watts PEP:	1500	1500
Weight, lb. (kg):	60 (27.2)	55 (25)



10-40M

WORLD RANGER MULTIBAND HF YAGIS and DIPOLES

A4S Four Element Beam - 10, 15 & 20 Meters

With stainless steel hardware.

The A4S is the true, high performance tribander. Precisely tuned high-power traps, carefully selected element lengths, and proper spacing combine to make the A4S the preferred antenna for your HF work! This is the premium antenna with all the features that you want. High gain, low SWR, and wide bandwidth keep the contacts coming in. All U-bolts, clamps and hardware are stainless steel. The A4S has pinned boom sections and formed aluminum brackets to keep elements straight under all conditions. Our solid construction keeps the A4S on the tower! Add 40 meters with A744 kit.

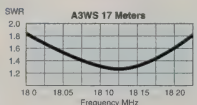
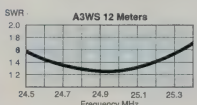
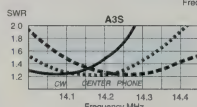
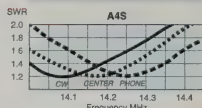


A3S Three Element Beam - 10, 15 & 20 Meters

With stainless steel hardware.

The A3 World Ranger, our top selling tribander, has become the A3S with all stainless steel hardware. It's a real power-house in a small space and lets you work the pile-ups with confidence. All you need is a lightweight tower and rotator to enjoy the benefits of the A3S. It's a proven performer in DX-peditions and contests and handles full power from your linear.

Construction features include pinned boom sections, heavy duty element clamps with backing plates plus all stainless steel hardware. When space is at a premium, but you want the benefits of a full-size tribander, the A3S is right for you! Add 40 meters with A743 kit.



MODEL	ASL2010
Frequency, MHz:	13.5-32
No. Elements:	8
Forward Gain, dBi:	6.4
Front to Back Ratio, dB:	15-20
SWR 1.2:1 Typical	
2:1 Bandwidth:	18.5 MHz
Power Rating, Watts PEP:	1500
3dB Beamwidth, Degrees	
E Plane:	65
Boom Length, ft (m):	18 (5.48)
Boom Diameter, in (cm):	2.0 (5.08)
Longest Element, ft (m):	38 (11.58)
Element Ctr Dia., in (cm):	1.25 (3.18)
Turning Radius, ft (m):	19.25 (5.86)
Max Size Range, in (cm):	1.5-2 (3.8-5.1)
Wind Load, ft ² (m ²):	10.1 (.93)
Weight, lb (kg):	55 (25.5)

MODEL	A4S	A3S	A3WS
Frequency, MHz:	28, 21, 14	28, 21, 14	24, 18
No. Elements:	4	3	3
Forward Gain, dBi:	8.9	8.0	8.0
Front to Back Ratio, dB:	25	25	25
SWR 1.2:1 Typical:			
2:1 Bandwidth KHz:	>500	>500	300
Power Rating, Watts PEP:	1500	1500	1500
3 dB Beam Width, Deg. E Plane:	58	60	60
Boom Length, ft (m):	18 (5.48)	14 (4.27)	14 (4.27)
Boom Diameter, in (cm):	2 (5.10)	1.5 (3.81)	1.5 (3.81)
Longest Element, ft (m):	32 (9.75)	27.75 (8.45)	25.1 (7.66)
Element Center Dia, in (cm):	1.25 (3.18)	1.25 (3.18)	1.25 (3.18)
Turning Radius, ft (m):	18.4 (5.49)	15.5 (4.72)	14.4 (4.4)
Max Size Range, in (cm):	1.25-2.00 (3.18-5.08)	1.25-2 (3.18-5.08)	1.25-2 (3.18-5.08)
Wind Load, ft ² (m ²):	5.50 (0.51)	4.36 (0.47)	4.1 (0.38)
Weight, lb (kg):	37 (16.8)	27 (12.9)	22.5 (10.2)

30 & 40 Meter Add-On Kits - For A3S, A4S & A3WS

40 meters will come alive by adding one of these kits to the dipole of your A3S or A4S. The kits include high power traps with heavy wall fiberglass insulator and all hardware. A simple adjustment allows 30 meter operation. For our newest beam, the A3WS, we have a 30 meter add on kit the A103.

A743 7 MHz/10 MHz kit for A3S
A744 7 MHz/10 MHz kit for A4S
A103 10 MHz kit for A3WS

MODEL	A743/A744	A103
BAND	7 MHz (40 m) 10 MHz (30m)	10 MHz (30m)
Driven Element with Adapter kit, ft (m)	33.19 min. 27.12 min. 35.33 max. 28.4 max. (10.12-10.77) (8.27-8.66)	32.1 (9.8)
Windloading ft ² (m ²)	.58 (.05) .27 (.03)	.45 (.04)
Bandwidth, KHz	125 150	250
Power Rating, Watts	2000 PEP 2000 PEP	2000 PEP
Side Rejection, dB	20 20	20
Weight, lb (kg)	3.44 (1.56) 2.29 (1.04)	3.25 (1.47)

Rotatable Dipoles

Our World Ranger Dipoles give bi-directional patterns and rotatable convenience. You can mount them high and away from the trees for better performance than a wire dipole. These single and multi-band dipoles feature high-performance traps, heavy wall tubing, and rugged hardware for years of enjoyment.



MODEL	D40	D4	D3	D3W
Frequency, MHz:	7	28.21, 14.7	28.21, 14	24, 18, 10
SWR 1.2:1 Typical:				
2:1 Bandwidth, KHz:	40>125	>350	>500	>200
Power Rating				
Watts PEP:	1500	1500	1500	1500
Length ft:	42.25	35.8	25.8	34.0
(m):	(12.88)	(10.92)	(7.86)	(10.37)
Max Size, in (cm):	1.5-2 (3.8-5)	1.5-2 (3.8-5)	1.5-2 (3.8-5)	1.5-2 (3.8-5)
Wind Load, ft ² (m ²):	1.3 (.12)	1.3 (.12)	.9 (.08)	.9 (.08)
Weight, lb (kg):	12 (5)	13 (6)	9 (4)	11 (5)



70 CM, 2 Meters

DUAL BAND RINGOS & YAGIS

Cushcraft is the leader in dual band antennas. Our verticals provide excellent coverage at a price below the competition. The AR270 and AR270B are favorites with the AO27 crowd. For increased coverage, our dual band Yagis lead the way. Both Yagis require only one coax feedline for true dual band performance.

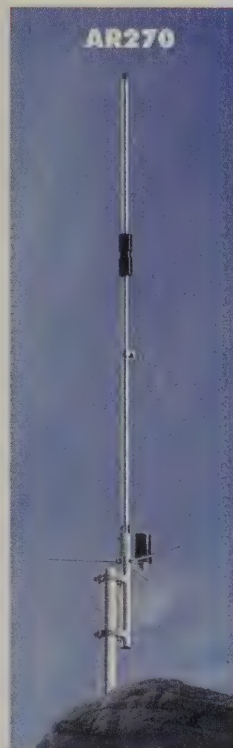
AR270B 5.5/7.5 dB Dual Band Ringo

This model gives very high gain with a low angle of radiation and it is only 7.7 feet (2.35 m) high. The AR270B is computer optimized with two 5/8 wavelength collinear elements on 2 meters and four 5/8 wavelength elements on 70 cm. It is broadbanded for minimum SWR on both bands. It is easy to assemble with three rugged aluminum tubing sections, a durable mast mount and factory sealed coils for best performance.

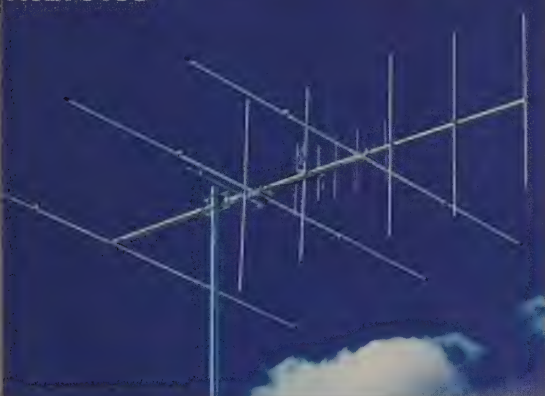
AR270 3.0 / 5.5 dB Dual Band Ringo

The "Dual Wonder" AR270 is only 3.75 feet (1.1 meters) high. It has great performance for its size, making it the most popular 2m/70 cm base antenna.

MODEL	AR270		AR270B	
Frequency, MHz	144-148	430-450	144-148	430-450
SWR 1.2:1 Typical				
2:1 Bandwidth, MHz	>4	>15	>4	>15
Gain, dBi	3.0	5.5	5.5	7.5
Power, Watts FM	250	250	250	250
Horizontal Radiation				
Pattern, Degrees	360	360	360	360
Height, ft, (m)	3.75 (1.13)		7.7 (2.3)	
Mast Size Range, in	1.25-2 (3.2-5.1)		1.25-2 (3.2-5.1)	
Radial Length, in (cm)	6.75 (17.1)		6.75 (17.1)	
Wind Load, ft ² (m ²)	0.27 (0.03)		0.47 (0.044)	
Weight, lb (kg)	2 (0.9)		2.4 (1.09)	



A627013S



A27010S and A2706S

10 and 7.8 dB Dual Band Yagis

Increase your range by selecting one of the new Cushcraft dual band Yagis on 2 meters and 70 cm. You can point the antenna at stations while you are in QSO with them. This will direct more of your output power when transmitting at the same time reducing interference and increasing signal strength when receiving. These antennas are perfect for packet applications. Assembly is a snap with our fully illustrated assembly manuals.



MODEL	A27010S		A2706S		A627013S	
Frequency, MHz					50-54	144-148 430-450
No. Elements:	5	5	3	3	3	5
Forward Gain, dBi:	10	10	7.8	7.8	8	10
Front to Back Ratio, dB:	20	18	20	18	20	18
SWR 1.2:1 Typical:						
2:1 Bandwidth, MHz:	±4	±10	±4	±20	>1	>4
Power Rating, Watts PEP:	350	350	350	350	1000	350
3dB Beamwidth, Degrees						
E Plane:	52	52	66	66		48.5
H Plane:	60	60	108	108		60
Boom Length, ft (m):	6.17 (1.9)		2.8 (.85)		8.66 (2.66)	
Longest Element, in (cm):	40.3 (102.4)		41 (104.1)		117 (300)	
Turning Radius, ft (m):	6 (1.8)		2.8 (.85)		6.16 (1.87)	
Mast Size Range, in (cm):	1.25-2 (3.2-5.1)		1.25-2 (3.2-5.1)		1.25-2 (3.2-5.1)	
Wind Load, ft ² (m ²):	.725 (.07)		.3 (.02)		2.52 (0.23)	
Weight, lb (kg):	1.8 (.81)		1.7 (.8)		9.5 (4.3)	

RINGO RANGER , 6 and 10 METER YAGIS



70 CM, 1 1/4 M, 2 M



Some hams comment on the ARX2B:

"Since I put this antenna up I have received many compliments on the improvement of my signal." (N3LHP)

"The only antenna I ever installed that worked like it should the first time." (N7PGH)

"ARX2B is a good antenna for my use on 2 meters FM...Several on the air in my area." (N9OPL)

"ARX2B...the best antenna." (XE2CLB)

Our Ringos are Number One

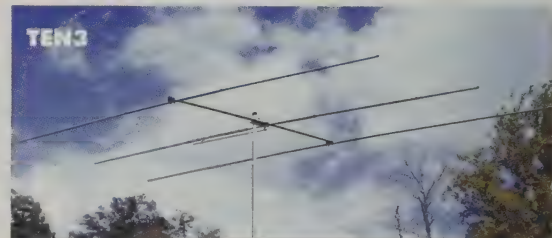
Tough performers at a good price! The Ringo family of dependable, cost-effective antennas has served more hams - from novice to veteran extra - than any other amateur antenna made. Simple, straightforward design, light weight and quick, easy installation make the durable Ringo family right for you. Ringo's top performance and low cost mean more dB per dollar - an equation anyone can appreciate.

Ringo Ranger II

Our Ringo Ranger II has more gain, less windload, and more mechanical integrity than other two meter antennas. You'll quickly appreciate the benefits of this amazing antenna! Based on the original W1BX Ringo, the Ringo Ranger II is the latest design featuring three 5/8 wave radiating elements and an adjustable 1/8 wave phasing stub. The result is a very low angle of radiation over your coverage area.

The Ringo Ranger II has built-in lightning protection, UV-stabilized insulators, heavy wall tubing, improved decoupling radials to eliminate feedline radiation, and all-weather performance.

MODEL	ARX2B	ARX450E	AR6
Frequency, MHz:	135-160	435-450	50-54
SWR 1.2:1 Typical			
2:1 Bandwidth, MHz:	>3	>10	2
Gain, dBi:	7.0	7.0	3
Power Rating, Watts FM:	1000	500	1000
Radiation Angle, Deg.:	7	7	16
Horizontal Radiation			
Pattern, Degrees:	360	360	360
Ring Diameter, in (cm):	5 (12.7)	3.5 (8.9)	13 (33)
Radiator Base Dia, in (cm):	.75 (1.9)	.50 (1.2)	1 (2.5)
Height, ft. (m):	14 (4.3)	4.9 (1.5)	10.1 (3.1)
Mast Size Range, in (cm):	1.0-1.25 (2.54-3.1)	.75-.88 (1.9-2.22)	1-1.25 (2.54-3.1)
Radial Length, in (cm):	20.5 (52.1)	6.75 (17.1)	
Wind Load, ft ² (m ²):	0.5 (0.05)	0.2 (0.02)	.37 (.03)
Weight, lb (kg):	6 (2.7)	1 (.45)	2.5 (1.1)



6 Meter Yagis - SSB/CW/FM

Computer-aided modeling and test range techniques were used by Cushcraft engineers to further optimize the performance of our popular 6 meter Yagis. This process means more gain and cleaner patterns with excellent front-to-back ratios. S-models have very broad bandwidth so they will not detune in bad weather. They feature stainless steel hardware for long trouble-free life. Enjoy the new popularity and exciting contacts on the 6 meter band with one of the S-series Cushcraft Yagis. The A503S, A505S and A506S may be mounted vertically for FM use.



MODEL	A503S	A505S	A506S	TEN3
Frequency, MHz:	50-54	50-54	50-54	28-29.7
No. Elements:	3	5	6	3
Forward Gain, dBi:	8	10.5	11.6	8
Front to Back Ratio, dB:	20	24	26	25
SWR 1.2:1 Typical				
2:1 Bandwidth, MHz:	>1	>1	>1	>1.5
Power Rating, Watts PEP:	1000	1000	1000	1500
3dB Beamwidth, Degrees				
E Plane:	76	56	48	64
Boom Length, ft (m):	6 (1.8)	12 (3.7)	20 (6.1)	8 (2.44)
Longest Element, in (cm):	117 (300)	123 (312)	119 (302)	18 (5.49)
Turning Radius, ft (m):	6 (1.8)	7.8 (2.37)	11.5 (3.5)	9.8 (3.0)
Mast Size Range, in (cm):	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)
Wind Load, ft ² (m ²):	1.80 (0.17)	2.9 (0.273)	4.46 (.41)	2.0 (.20)
Weight, lb (kg):	7 (3.2)	11 (5.0)	18 (8.2)	9.9 (4.45)

BOOMER SIDEBAND/UHF-VHF YAGIS



2 Meters

13B2



13B2 - 13 Element Wideband Boomer

The 13B2 is as versatile as the 17B2 is specialized. 13B2 will be your choice for high performance across the entire 2 meter band. New and experienced hams will enjoy 15.8 dBi gain on FM, packet, CW, or sideband across the 4 MHz operating range. The 13B2 is easily mounted vertically or horizontally for maximum performance on your favorite mode. Its optimum boom length makes it a popular antenna that fits just about anywhere. The new UltraMatch balanced feed on the 13B2 provides a 50 Ohm match via a standard SO-239 UHF female connector. Model **13B2N** has N connector.

17B2 - 17 Element CW/SSB Boomer

The serious two meter operator who is interested in EME, aurora, scatter, SSB, CW, tropo etc, will choose the 17B2. It has 17 elements on a 4.5 wavelength boom. Our computer-aided design supported by precise test range data and the latest manufacturing technology gives you a cleaner pattern and 18 dBi gain in this long boom design. Significant enhancement is provided by the new UltraMatch balanced feed system with N-connector.



The new Cushcraft UltraMatch is a modified T-match system that provides a balanced current distribution on your Boomer. It uses UltraLink teflon dielectric cable allowing for low loss high power applications. UltraMatch is completely enclosed for weather proofing. UltraMatch features an N-connector on the 17B2 and UHF SO239 on the 13B2. When all weather performance is important, you will choose the new UltraMatched Boomers everytime.



A4496S/A44911S

Use one of these 440 MHz beams for your FM/Package needs. Both work great for vertical or horizontal polarization.



719B FM, CW and SSB 15.5 dBi

Looking for an antenna to enhance performance on all modes of the 70 CM band? The 13.5 foot long 719B is the right choice. Mount it vertical for FM or horizontal for CW and Sideband. The 719B joins the 2 meter 13B2 as a classic for improved performance.



MODEL	13B2	17B2	124WB	26B2	A14810S	A14820T	719B	A4496S	A44911S
Frequency, MHz	144-148	144-145	144-148	144-148	144-148	144-148	430-450	440-450	440-450
No. Elements	13	17	4	26	10	10/10	19	6	11
Forward Gain, dBi	14.2	18.0	10.2	17	13.2	13	15.5	10.5	13.2
Front to Back Ratio, dB	26	26	19	26		24	25	18	20
SWR 1.2:1 Typical									
2:1 Bandwidth, MHz	>4	>2	4	>4	14	14	20	>10	>10
Power Rating, Watts PEP	1500	1500	1500	1500	1000	1000	2000	350	350
3 dB Beamwidth, Degrees									
E Plane	2 x 18	2 x 14.5	60	2x18	40	45	24	60	48
H Plane	2 x 19	2 x 15	88	2x9.5	46	50	19		
Side Lobe Atten., dB, E Plane	>60	>60	40	>60		40	60	30	40
Boom Length, ft (m)	15 (4.57)	31 (9.45)	4 (1.22)	15 (4.57)	12 (3.6)	11 (3.4)	13.5 (4.1)	2.9 (0.89)	4.4 (1.35)
Electrical Wavelength	2.2	4.5	5	2.2		1.6	6		
Longest Element, in (cm)	39.75 (101)	40.75 (103.5)	40.75 (104)	39.75 (101)	40.3 (102.4)	40.6 (103)	13.75 (34.9)	13 (33)	13 (33)
Turning Radius, ft (m)	8.9 (2.7)	17.25 (5.26)	4 (1.22)	10.4 (3.18)	6 (1.8)	7.5 (2.3)	7.25 (2.2)	2.9 (.89)	2.8 (.85)
Max Size Range, in (cm)	1.5-2	1.5-2	1.25-2	1.5-2	1.25-2	1.25-2	1.25-2	1.25-2.0	1.25-1.5
	(3.8-5.1)	(3.8-5.1)	(3.2-5.1)	(3.8-5.1)	(3.2-5.1)	(3.2-5.1)	(3.2-5.1)	(3.2-5.1)	1.25-1.5
Wind Load, ft ² (m ²)	1.8 (.17)	3.9 (.36)	34 (.034)	4.84 (.45)	1.21 (.11)	39 (.11)	1.2 (.11)	0.30 (0.03)	0.39 (0.04)
Weight, lb (kg)	6.7 (.31)	15.75 (7.14)	3 (1.36)	21.5 (9.75)	6 (2.7)	7 (3.15)	5.6 (2.55)	3 (1.4)	4 (1.8)



MA8040 Meter Vertical

***A great way to beat
the low-sunspot DX doldrums!***



- ▶ DX'ing
- ▶ Field Day
- ▶ Contesting
- ▶ Rag chewing
- ▶ Homeland Security

**160 Meter Vertical
available this Fall !**

The MA8040V is a compact self-supporting HF vertical that delivers excellent DX-hunting performance on 80 and 40 Meters.

Only 22 feet tall and weighing in at less than nine pounds, it is small and light enough for one person to handle easily without assistance. Once installed, the MA8040V virtually disappears against a backdrop of trees and foliage. Parallel resonators use a combination of inductive and capacitive top loading to deliver automatic band switching, high efficiency, and rock-bottom SWR on both bands. Designed to handle maximum legal power and built to last year after year, it's the perfect DX solution when the sunspots silence the higher bands. Radial kit included.

Antenna MA 80/40	80 Meters	40 Meters
Frequency	3.5 - 4.0 MHz	7.0 - 7.3 MHz
Impedance	50 Ohms	50 Ohms
Minimum VSWR	1.1:1	1.1:1
Gain	0 dBi	2 dBi
Vert, ft	22	22
(m)	(6.7)	(6.7)
Approximate Wt, lb	8.8	8.8
(kg)	(4.0)	(4.0)

Lakeview Co., Inc.

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24 brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the WD4BUM INDUCTI-MATCH (IM-1) which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

Models

9106 (6M)	9110 (10M)	9112 (12M)
9115 (15M)	9117 (17M)	9120 (20M)
9130 (30 M)	9140 (40M)	9160 (60M)
9175 (75M)		

All Hamsticks..... each **\$24.99**

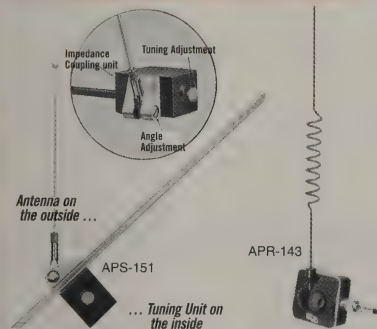
901 Dipole Mount for 2 Hamsticks..... **14.99**

IM-1 Inducti-Match..... **17.99**

TM-1 License Plate Mount 3/8" x 24..... **44.99**

TM-1 PLUS License Plate Mount SO-239 connector..... **Closeout 24.99**

ANTENNA SPECIALISTS



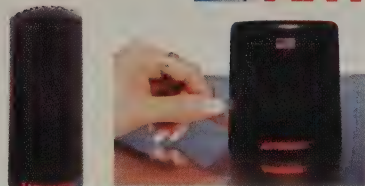
"ON-GLASS™" MOBILE ANTENNAS

No holes to cut! The small tuning unit attaches to glass inside the vehicle and couples capacitively through the glass to the radiating element mounted on the outside. Installs with easily-removable adhesive. Includes adhesive, 15 ft. coaxial cable with PL-259 connector; 50W, 144-174 MHz (APS-151), 138-150 MHz (APR143); 6 MHz, tunable bandwidth; Less than 1.5:1 VSWR; 50Ω nominal impedance; Electrical 1/2-wave radiator; Shunt fed, DC ground coupling unit; 33" (APS-151) 23 in. (APR143) stainless steel, black DURACOAT™ finish whip; 15' RG-58/U cable with PL-259

APS151 (left) 2m, on-glass, 33" h..... **\$69.99**

APR143 (right) 2m 23" cell look-alike..... **\$69.99**

ANTENEX



Phantom® Whipless design! They don't look like antennas. Attract less attention, less vandalism and have lower wind resistance. Less susceptible to damage by trees, garages, etc. Requires NMO mount.

TRAB-1420 VHF Covers 142-164 MHz (tunable), Black radome is 3.30 in. high. Unity gain. **\$59.99**

TRAB-4303 UHF Covers 430-450 MHz. Black radome is 3.30" high. 3dB gain..... **\$29.99**

BB-1443 VHF Wideband Antenna Base loaded 5/8 wave. Covers 144-174 MHz, 3 dB gain, 49 in. tapered whip. Requires NMO mount. (Black) **\$39.99**

CWB-1443 VHF 5/8-Wave Broadband, Self Tuning 144-156 MHz, 3.0 dB, 47" tapered whip. (Black)..**\$49.99**

CWB-4405C UHF Wideband, Self Tuning Closed coil collinear. 440-470 MHz, 5dB gain, 32-1/8" tapered whip. Requires NMO mount. (Black) **\$49.99**

BB-1442N Broadband, 5/8-Wave No Ground Plane Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip. **\$39.99**

BB-4303 UHF 5/8-Wave Covers 430-450 MHz, 3dB gain, 11.81" straight whip. Requires NMO mount. (Black)..... **\$34.99**

AB-FT Broadband 1/4-Wave Tunable 118-896 MHz, unity gain, NMO..... **\$16.99**

AB-SCANC Scanner Antenna Closed coil collinear for 150/450/800 MHz receive only. Requires NMO mount. (Black)..... **\$29.99**

CB-144/440C Dualband VHF/UHF Closed coil, 36", collinear covers 144-148, 440-450 MHz, 2/5dB, 200W. Requires NMO mount. (Black)..... **\$49.99**



MOUNTS

MB-8PST Permanent Brass Hole Mount (NMO) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Comes with 17' RG-58A/U stranded cable, Teflon® PL-259 connector. **\$15.99**

GB-8PSTI NMO Magnetic Mount For temporary vehicle installs. Strong (90 lbs. pull), protective mylar sole prevents scratches. With 12' RG-58A/U cable and Teflon® PL-259 connector..... **\$29.99**

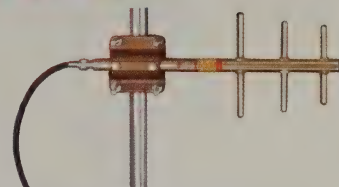
LBMB-9034 "L" Bracket for Mirror Mount Strong, extruded aluminum. Accepts various 3/4" hole mounts. Black (plain pictured)..... **\$10.99**

VTPM Plate Mount 1" thick NMO plate mount (UHF barrel)..... **\$15.99**



GPS ANTENNA

GPSU-15GBNC GPS Antenna - Low profile magnetic base GPS antenna with 14 ft. RG-174/U coax and BNC connector... C/O **\$79.99**



GOLD-ANODIZED, WELDED DIRECTIONAL YAGIS

Computer optimized and internally matched - wide bandwidth no tuning. End-of-boom N connector feed with an internal transmission line feeding the driven element.

Y-1363 3-Element VHF Covers 136-150 MHz, 7.1 dBd, 17 dBd front-to-back ratio. Rated for 500W. Mounts on mast up to 2" diameter..... **\$119.99**

Y-4303 3-Element UHF Covers 430-450 MHz, 7.1 dBd gain, 17 dB front-to-back ratio. Rated for 300W. Mounts on mast up to 1-5/8" diameter..... **\$99.99**

SGC

HF WHIP ANTENNAS

Lightweight, helically wound, low cost mobile antenna systems. SG-303 operates from 1.8-30 MHz, 9 feet overall length in two sections of 50 inches each. The SG-307 operates from 1.8-60 MHz, 7 feet overall length. Both are for use on vehicle or boat up to 60mph. High voltage insulated 4-way stainless steel ratchet mount. Heavy duty reinforced base spring, high voltage wall feed-thru bushing and strap for coupler grounding included. See the SGC website for more specifications. Antennas must be used with an antenna coupler such as an SGC Smartuner™.

55-67 SG-303 whip only C/O **\$199.99**

55-28 SG-307 whip with mt **\$449.99**

55-69 SG-307 whip only... **\$265.99**

Special Order

ANTENNA SUPERMARKET



EAVES TWIN The Eavesdropper Shortwave Broadcast Receiving Antenna A 42 ft. long centered dipole with 8 automatic bandswitching trap circuits which electrically separate the antenna segments - just tune your receiver to the desired band. The Eavesdropper covers the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60, 75 and 90 meter bands. Includes The Zap-Trapper® gas-tube lightning arrestor for receiver protection and 50 ft. of 450-pound test support rope. Completely assembled, ready to use. With 100' of 72Ω twin lead..... **\$89.99**

EAVES SO239 With weather-proofed SO-239 coaxial center connector, coax not included. **\$89.99**



We accept I.M.P.A.C.® Government Credit Cards

DIAMOND
ANTENNA

DIAMOND ANTENNAS

The Standard By Which All Others Are Judged.

Acclaimed as the technological leader in single & multiband antennas

- Wide-band Performance • Factory Adjusted-No Tuning Required • Highest Gain
- UPS Shippable • High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware

See Price Guide for additional models and pricing.

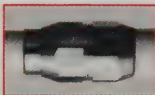
Ruggedized Base/Repeater Antenna



COAX CONNECTION
AT BASE END



HEAVY DUTY BASE/
RADIAL ASSEMBLY



STRONG JOINT
COUPLINGS

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz
Gain: 2m: 4.5 dB 70cm: 7.2 dB
Power: 200 watts
Wind Rating: 135 MPH (no ice)
Height: 5.6 feet

X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz
Gain: 2m: 8.3 dB 70cm: 11.7 dB
Power: 200 watts
Wind Rating: 90 MPH (no ice)
Height: 17.8 feet

DIAMOND Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
CP22E ¹	144	6.5	200	UHF	9.0	70
DPGH62 ¹	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23A	144	7.8	200	UHF	15.0	90
F718A	440	11.5	250	N	15.0	90
New! F1230A2	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

DIAMOND Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
New! X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
New! X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X510NA ²	144/440	8.3/11.7	200	N	17.2	90
X510MA	144/440	8.3/11.7	200	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90
U200	440/1240	8.3/11.7	100	N	5.9	135

DIAMOND Tri-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
V2000A ^{3,5}	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A ⁴	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

Most requirement: 1.4"-2.4"

DIAMOND Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNGTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A504HB	50	10.8	400	UHF	10.7'	4 element
A144SS	144	9	100	UHF	37.5'	5 element
A430S10	432	13	100	UHF	43'	10 element
A430S15	432	14.8	100	UHF	89'	15 element

NOTES: ¹ Heavy duty aluminum construction.

² X510N: 144-147/430-440 MHz.

³ 1/4", reted in dBi.

⁴ 2m: 146-148; 100 watts

⁵ 52-54 MHz. only

BAND: 144-148 MHz.

222-225 MHz.

420-430 MHz.

430-440 MHz.

440-450 MHz.

1240-1240 MHz.

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DIAMOND'S STATE-OF-THE-ART

VHF/UHF And HF/VHF Mobile Antennas— Maximum Performance Without Compromise

You've seen the rest...now own the BEST!

See Price Guide for additional models and pricing.



FOLD-OVER

Patented One-Touch Fold-Over Feature.

(Not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO and NR73BNMO)

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. IN.	ELEMENT PHASING
M285*10 M285SNMO*10	2m	3.4	200	UHF NMO	52.4	5/8λ
NR221*	2m	6.5	100	UHF	96.8	2-5/8λ
SG2000HD*	2m	5.2	250	UHF	62.6	1/2λ+3/8λ
HF6FX*6	6m	2 dBi	250	UHF	40	1/4λ
HF50CX*6	6m	3.5 dBi	200	UHF	75	3/8λ
M685*6 M685SNMO*6	6m	2.15 dBi	200	UHF NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2+1/4λ
NR174	23cm	8.4	100	N	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ
MR77 MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO*6	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA7	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO8	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4+1/2λ, 3-5/8λ
SG7000A*6	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A SG7500HNMO	2m/70cm	3.5/6.0	150	UHF NMO	40.6 41.0	1/2λ, 2-5/8λ
SG7900A* SG7900AHNMO*	2m/70cm	5.0/7.6	150	UHF NMO	62.2 62	7/8λ, 3-5/8λ
SGM510	2m/70cm	2.15/5.5	100	UHF	37	1/2λ, 2-5/8λ
CR320A*6 CR320BNMO*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF NMO	37.4 38	1/4λ, 1/2λ, 2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B*6,9 CR627BNMO*6,9	6m/2m/70cm	2.1/4.5/7.2	120	UHF NMO	60	1/4λ, 1/2+1/4λ, 2-5/8λ
SGM911*6,9	6m/2m/70cm	2.15/3/5.8	60	UHF	41	1/4λ, 1/2λ, 2-5/8λ
CR8900A*6,11	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ, 1/2λ, 2-5/8λ

1/4λ rated in dBi.

* Not recommended for Magnet Mount

9 52-54MHz only

6 Grounding required

10 Tuneable from 140-174MHz

7 NR770HB same specs but in black finish.

11 FM only

8 NR770HBNMO same specs but in black finish.

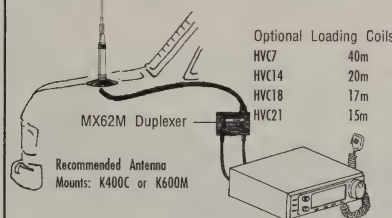
HV7A Mobile Antenna System

For New HF/VHF transceivers

(Such as: IC706 series, FT100 & NEW FT8900R)

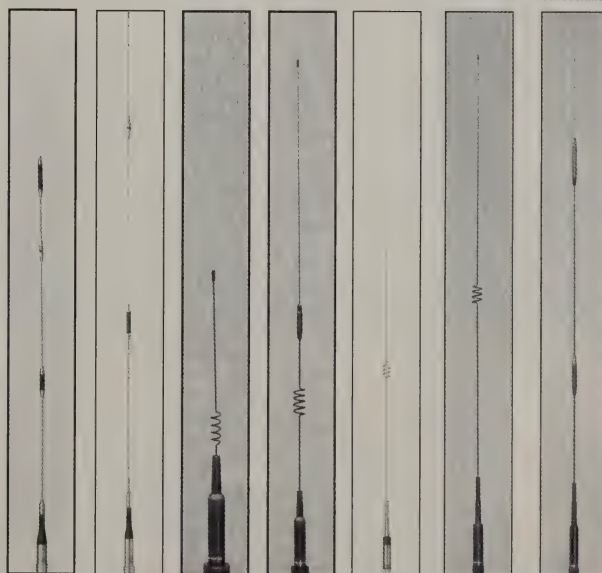
The HV7A has 5 band capability: 70cm, 2m, 6m, and 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 series, FT100 and New FT8900R radios.

Bands Supplied: 10m/6m/2m/70cm
Opt. Loading Coils: 40m/20m/17m/15m
Power, P.E.P.: HF 120w/VHF 200w
Mount Connection: UHF
Length: 54"
SWR: 1.5:1 nominal



SG2000HD

SG7500A
SG7500HNMO



SG7900A
SG7900AHNMO

SGM911

NR72BNMO

NR73BNMO

NR770HA
NR770HB

NR770HNMO
NR770HBNMO

CR627B
CR627BNMO

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DIAMOND Antenna Accessories

High Efficiency HT & Scanner Antennas
Duplexers & Triplexers
Dummy Loads & Coaxial Switches
Specialty Antennas

See Price Guide for additional models and pricing.

Dummy Loads & Coaxial Switches

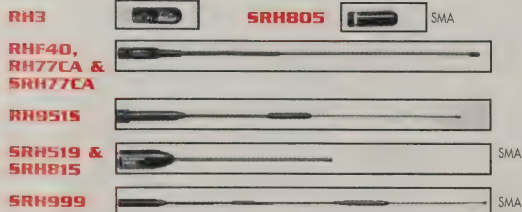
MODEL	DESCRIPTION	
CA23RS	Lightning surge protector, DC-2500 MHz, 200w Type-N (F)	
CA23RW	Lightning surge protector, DC-2500 MHz, 200w Type-N (F) Waterproof.	
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239	
CX210W	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N	
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239	
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak. PL-259	
DL30N	Dummy load, DC-500MHz. 15w average/100w peak. Type-N	

RH and SRH Series

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in, both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

MODEL	DESCRIPTION	RELATIVE GAIN*
RH3	2m/70cm dual band "Black Bullet" HT antenna. 1.75" BNC. 120 to 900 receive	-2 dB
RH77CA	High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. BNC.	+6 dB
RH205	2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9"	+9 dB
RH519	2m/70cm slim dual-band HT antenna. Flexible. 8" BNC, 10 watts.	+3 dB
RH707	2m/70cm dual-band tiltable whip - HT antenna. 8 1/4" BNC.	+3 dB
RH951S	High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. BNC (wide band receive)	+6 dB
RHF40	Super flexible version of the RH77CA listed above.	+6 dB
SRH77CA	High gain 2m/70cm dual band flexible HT antenna. 15" SMA, 10 watts.	+6 dB
SRH320A	2m/1-1/4m/70cm tri-band HT antenna. Flexible. SMA. 10 watts.	+3dB
SRH519	2m/70cm dual-band HT antenna. Flexible. 8" SMA, 10 watts.	+3 dB
SRH805	2m/70cm/23cm tri-band HT antenna. 1.75" SMA, 10 watts.	-2 dB
SRH815	2m/70cm/23cm tri-band HT antenna. Flexible. 6" SMA, 6 watts.	+3dB
SRH999	6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5" SMA, 10 watts.	+3dB

*Rated against typical stock HT antennas



Specialty Antennas

NR770HRKS

NR770HB antenna with HRKS adhesive backed mount and 13.5' RG-316/B cable. SMA Connector with PL-259 adapter.

CR8900A

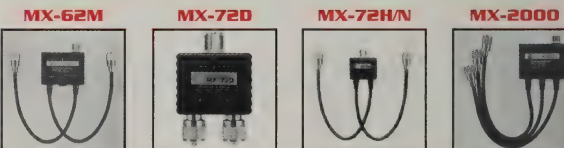
10m/6m/2m/70cm Quad FM band antenna for FT8900A radio or multi radio applications. Use K400 & K600 Series mounts.

MR77 • MR775MA

Ideal antenna for increased performance of HT radio or where compact antenna is required. Dual-band with Magnet Mount base. 1/4λ (2m) & 1/2λ (70cm), black finish. Available in UHF or SMA cable connection.



Duplexers & Triplexers



MODEL	MX72D	MX72H	MX72H	MX2000	MX62M
FREQUENCY BAND (MHz)	LPF 1.6-30	140-150	HPF 400-460	LPF 1.6-60 BPF 110-170 HPF 300-950	LPF 1.6-56 HPF 76-470
PWR. CW (ICAS) WATTS P.E.P.	400 1000	150 400	100 250	800 800 500	600
THRU LOSS/dB	0.15	0.15	0.25	0.15 0.2 0.25	0.2 0.3
ISOL		60dB		60dB	50dB
VSWR		1.2:1		1.2:1	1.2:1
CONNECTOR COMPLEMENT	MIX 144 430 M M	MIX 144 430 M M	MIX 144 430 M N	MIX 50 144 430 M M M	MIX HF VHF M M
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/Connectors	12" Cable w/Connectors

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DIAMOND'S Premium Antenna Mounts & Cable Assemblies

Designed for today's high performance antennas

See Price Guide for additional models and pricing.

K400

Heavy Duty Hatchback/Door/Truck Lid Mount

Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K400C SO-239 base, 6.5' coax & PL-259
K400CHMO NMO base, 6.5' coax & PL-259
K400-3/8C 3/8x24 base, 6.5' coax & PL-259
K400S SO-239 base, 13.5' coax & SMA
K400SHMO NMO base, 13.5' coax & SMA

* Use C110 for front radio installations.
* Includes SMA to UHF adapter.



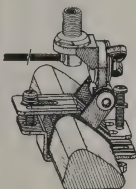
K515

Universal Luggage Rack Mount

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for light-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold to horizontal position.

K515S SO-239 base, 13.5' coax & SMA
K515SNMO NMO base, 13.5' coax & SMA

Includes SMA to UHF adapter.

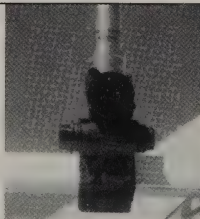


K550

Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

K550KM SO-239 base, 13' coax & PL-259
K550 Mount Only



K9000

Motorized Mount

Raise and lower your antenna with a touch of a button. Vertical adjustment 0-9°. Accepts "ground independent" antennas up to 45". Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series.

K9000TM Trunk/Hatchback Mount
K9000LRM Luggage Rack Mount

* Use C-Series cable assemblies.



HRK5

Adhesive Backed Mount

Includes glass, fiberglass, and metal. 13.5' RG-316/B coax with SMA connector. PL-259 adapter included.

Recommended antennas: NR770HA, NR770HB, and SGM510.

NEW!



K412

Deluxe Hatchback/Door/Trunk Lid Mount

Two-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45".

K412C SO-239 base, 6.5' coax & PL-259
K412CHMO NMO base, 6.5' coax & PL-259
K412S SO-239 base, 13.5' coax & SMA
K412SNMO NMO base, 13.5' coax & SMA

* Use C110 for front radio installations.
* Includes SMA to UHF adapter.



K540

Mirror/Luggage Rack Mount

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks.

Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

K540KM SO-239 base, 13' coax & PL-259
K540 Mount Only



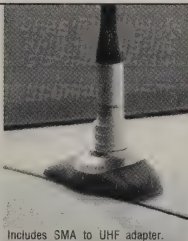
K600

Variable Angle Trunk Mount

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K600M SO-239 base, 16.5' RG-316 coax & PL-259
K600S SO-239 base, 13.5' RG-316 coax & SMA

* Includes SMA to UHF adapter.



K702M

Magnet Mount Base



Deluxe low profile magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. Cable: 13' RG58A/U & PL-259.

SPM35

Magnet Mount Base



Heavy duty 2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' coax and PL-259. Recommended for antennas under 45".

DPKANM-N Similar to the SPM35, with Type-N connectors.
SPM-NMO Similar to the SPM35, with NMO mount.

C-SERIES CABLE ASSEMBLIES



C101

SO-239 base, 6.5' RG316 Teflon coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO

Same as C101 with NMO base. For Diamond's K-Series mounts.

C213

Same as C101, 13.5' length.

C213NMO

Same as C101NMO, 13.5' length.



C110

Extension for C101. 10' RG8X coax w/min UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC

10' assembly similar to above, uses RG316 Teflon coax terminating in BNC-male.

C110SMA

Similar to C110BNC, uses RG316 Teflon coax terminating in SMA male.



C211

SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C104SMA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C105SMA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

GAP: THE PERFECT ANTENNA

We at GAP realize there isn't a perfect antenna. No singular antenna will scream DX on 80 and be the best for local nets on 10. If anyone tells you there is, beware! The perfect antenna does not exist, but the right one for you may. If you want something to bust the pile on the low bands, then consider the Voyager. Just starting out in ham radio and need a great general coverage antenna, the Challenger is easy to assemble and for little effort will yield superior performance, especially on DX. Maybe you know-ingly or unknowingly moved into one of those "restricted areas" where the Eagle's limited visibility, but unlimited ability is desired.



Voyager DX



Eagle DX

Challenger DX

This chart helps you select the right GAP antenna. When comparing GAPs, bandwidth is not a concern. With few exceptions, a GAP yields continuous coverage under 2:1 for the ENTIRE BAND.

All antennas utilize a GAP elevated asymmetric feed. A major benefit is the virtual elimination of the earth loss, so more RF radiates into the air instead of the ground. This feed is why a GAP requires **NO RADIALS**. Just as elevating a GAP offers no significant improvement to its performance, adding radials won't either, making set up a breeze.

A GAP antenna has no traps, coils or transformers. This is important. The greatest sources of failure in multiband antennas are these devices. Perhaps you heard someone discuss a trap that had melted, arced or became full of water. Improvements to these inherent problems are the focus of the antenna manufacturer, while the basic design of the antenna remains unchanged. **GAP improved the trap by eliminating it!** Removing these devices means they don't have to be tuned and, more importantly, won't be detuned by the first ice or rain. The absence of these devices improves antenna reliability, stability and increases bandwidth.

Another major advantage to a GAP antenna is its NO tune feature. Screws are simply inserted into predrilled holes with a supplied nutdriver.

The secret is out and people in the know say:

CO—The GAP consistently outperformed base-fed antennas...and was quieter."

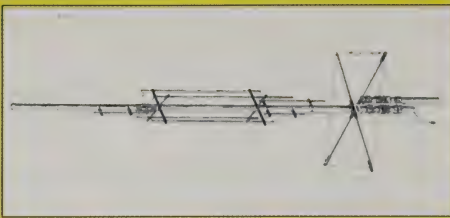
73—This is a real DX antenna...much quieter than other verticals."

RF—To say this antenna is effective would be a real understatement. Switching back and forth on 40m between another multiband HF vertical and the GAP, there was no comparison. Signals were always stronger on the GAP, sometimes by 5 units, not just DBs."

Worldradio—These guys have solved the problem associated with verticals. That is, an awful lot of RF is wallowing around and dropping into the dirt instead of going outward bound. A half-wave vertical does need radials if it is end fed (at the bottom). But the same half-wave vertical does not (as much, hardly at all) if it is fed in the center."

IEEE—Near field and power density analyses show another advantage of this antenna (asymmetric vertical dipole): it decreases the power density close to the ground, and so avoids power dissipation in the soil below it. The input impedance is very stable and almost independent of ground conductivity. This antenna can operate with high radiation efficiency in the MF AM standard broadcast band, without the classical buried ground plane, so as to yield easier installation and maintenance."

Latest Release: **TITAN DX**



This all purpose antenna is designed to operate 10m-80m. WARC bands included. It sits on a 1-1/4" pipe and can be mounted close to the ground or up on a roof. Its bandwidth and no tune feature make it an ideal antenna for the limited space environment as well as a terrific addition to the antenna farm.

MODEL	BANDS OF OPERATION										HT	WT	MOUNT	COUNTER-POISE
	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m			
Challenger DX	■	■	■	■	■	■	■	■	■	■		21 lbs	Drop In Ground Mount	3 Wires @ 25'
Eagle DX			■	■	■	■	■	■	■	■		19 lbs	1-1/4" pipe	80' Rigid
Titan DX			■	■	■	■	■	■	■	■		25 lbs	1-1/4" pipe	80' Rigid
Voyager DX							■		■	■	■	39 lbs	Hinged Base	3 Wires @ 57'

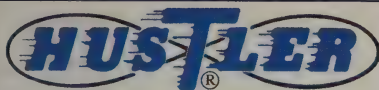
GAP

ANTENNA PRODUCTS, INC.
99 N. Willow Street
Fellsmere, FL 32948
tel: (772)-571-9922
web: gapantenna.com

TO ORDER, CALL AES...

1-800-558-0411

See Price List for GAP Quick-Tilt Mounts, Counterpoise and Guy Kit Prices



Model G3-144 . . . \$70.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 7' 5"
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 3/4"
- Construction: High strength fiberglass & aluminum.



Model
G3-144

Model G6-270R . . . \$169.99 Dual band 2 Meter & 440 MHz

ELECTRICAL

- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 7' 6"
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: one piece radome



G6-270R

Model G6-440 . . . \$149.99

ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 7' 3"
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: one piece radome



G6-440

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 . . . \$169.99 Two Meter

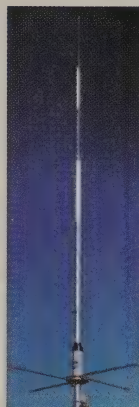
The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 15' 4"
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.



G7-144

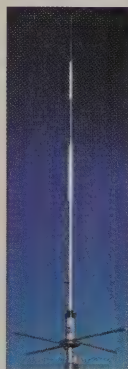
Model G6-144B . . . \$119.99 Two Meter

ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 9' 9"
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.



G6-144B

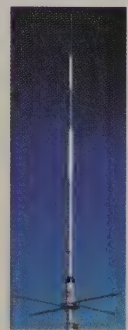
Model G7-220 . . . \$159.99

ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 10' 2"
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing,
- heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV . . . \$189.99

Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV . . . \$159.99

Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV . . . \$129.99

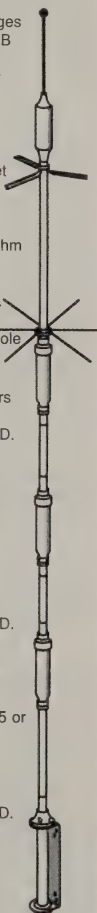
Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 1.6:1 at band edges

Model 30-MTK . . . \$45.99

30 meter add on kit for the 4 and 5 BTV

Spirit Series - RepeaterAntenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 GHz. The gain will be unity, 3.6, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



New-Tronics Antenna Corporation
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

www.new-ironics.com

Unity Gain

THF . . . \$24.99

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- 1/4 wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector



UHT-1 . . . \$15.99

VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- 1/4 wave length
- Cut length for low VSWR
- 15 ft RG58/U



UGM . . . \$23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to 1/4 wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



Collinear

Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB . . . \$16.99
SF-220 220 MHz 3.4 dB . . . \$16.99

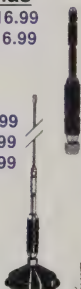
- Power rating: 100 watts
- 3/8" x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . . \$26.99

RX-220 220 MHz 3.4 dB . . . \$26.99

RX-440 440 MHz 5.0 dB . . . \$26.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



Collinear High Gain

Mobile Antenna

CG-144 5.2 dB 6 MHz BW . . . \$34.99
CG-220 5.2 dB 4 MHz BW . . . \$34.99

- Power rating: 200 watts
- 3/8"x24 thread
- 5/8 over 1/4 wave
- Collinear design
- CGT-144 5.2 dB 6 MHz BW . . . \$55.99
- CGT-220 5.2 dB 4 MHz BW . . . \$55.99
- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base



MKR-2 Radial Kit . . . \$22.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded coil and contains three radials



VHF and UHF Mobile Antennas

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . . \$34.99
MX-220 220 MHz 5.0 dB . . . \$34.99
MX-440 440 MHz 5.0 dB . . . \$36.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector
- MX-2B 144 MHz 3.4 dB . . . \$39.99
- MX-440B 440 MHz 5.0 dB . . . \$39.99
- Same as above but all black coil



BGG Series NMO Swivel Ball & Spring Antenna

BGG-144 3.4 dB . . . \$39.99
BGG-440-5 5.0 dB . . . \$39.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . . \$49.99

BBGT-440-5 5.0 dB . . . \$49.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



Dual Band 2 meter/ 70cm Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . \$31.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil

LMC-270 . . . \$59.99

- Coil and whip only
- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . . \$25.99

LMG-440-5 5.0 dB gain . . . \$19.99

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin
- LMC-144 3.4 dB gain . . . \$23.99
- LMC-440-5 5.0 dB gain . . . \$19.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top
- LMB-144 3.4 dB gain . . . \$22.99
- LMB-440-5 5.0 dB gain . . . \$19.99

- Power rating: 200 watts
- NMO style coil
- Black coil

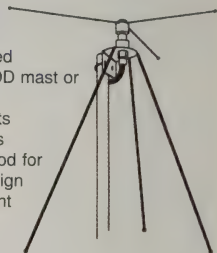


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX . . . \$25.99

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 1/4" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCL . . . \$37.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC or Pin plug on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRM . . . \$21.99

- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector

MOT . . . \$21.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC or Pin plug connector

MOR . . . \$20.99

- 3/4" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector



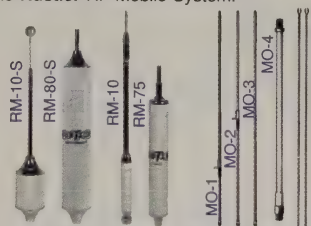
New-Tronics Antenna Corporation
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	\$16.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	\$16.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	\$16.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	\$16.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	\$23.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	\$23.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	\$26.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	\$26.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	\$28.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	\$28.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	\$28.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	\$25.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	\$25.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	\$26.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	\$30.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	\$38.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	\$53.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	\$53.99



Mobile HF Antennas Hustler Masts

MO-1 . . . \$33.99

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2 . . . \$33.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 . . . \$25.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4 . . . \$21.99

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series C-32 . . . \$12.99

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



C-30 . . . \$12.99

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



C-29 . . . \$19.99

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



Resonator Spring RSS-2 . . . \$12.99

Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



Magnet Mount . . . \$21.99

- MBM "Super" Magnet
- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



Quick Disconnect QD-2 . . . \$21.99

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



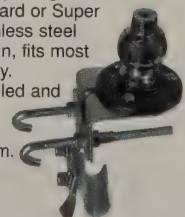
VP-1 . . . \$6.99

Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Bumper Mount BM-1 . . . \$23.99

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1 . . . \$49.99

Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2 . . . \$28.99

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 . . . \$26.99

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



HLM . . . \$24.99 Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



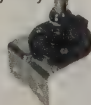
TLM . . . \$23.99 Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



HOT . . . \$25.99 Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



RVM . . . \$22.99 Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



2M/70CM Dual Band Series Antennas

Radiall/Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Radiall/Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO-2/70-SH\$40.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: NMOUHFBASE w/spring
Height: 17"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO-2/70B (black)\$69.99

Freq: 144-148/440-450 MHz
Gain: 2.4 dBi
Power: 100 Watts
Type: VHF: 5/8 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 33.5"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts. Available in chrome (below).

NMO-2/70C (chrome)\$64.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: 5/8 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70

Amateur 2m/70cm dual band antenna for NMO mounts. Available in black (above).

MM-2/70PL\$54.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: 3' Round Mag Mount
Height: 17"
Whip: WNMO2/70B

Complete 2m/70cm magnetic mount antenna with 12' of RG58A/U coax.

NMOQ-2/70-B (black)\$38.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: NMOUHFBASE
Height: 18"
Whip: WNMOQ2/70B

Kulglass Series High Performance Glass Mount Antennas

Radiall/Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Radiall/Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG-2/70-CX-PL\$124.99

Freq: 144-148/442-448 MHz
Gain: 2.4/4.5dB*
Power: 50 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Height: 32.5"

*Ground plane required for gain

Glass mount dual band antenna for 2m/70cm amateur radio frequencies.

KG-144-UD-PL\$86.99

Freq: 144-160 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna.

KG-220-UD-PL\$86.99

Freq: 220-225 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG2200/S
Conn: PL-259
Height: 26.5"
Whip: WKG220

Complete KG glass mount antenna.

KG-440-UD-PL\$73.99

Freq: 440-460 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

Tri-Band Scanner Antenna

NMO-150450800\$29.99

Freq: 150-165/450-470/806-940 MHz
Gain: 2.14 dBi
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"

Radiall/Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Radiall/Larsen portables. All center cores are made of brass or copper plated steel to maximize RF emission. Fully soldered connections and silver-plated components improve electrical efficiency. Double spring BNC's reduce wear on the mount. Other styles available.

KD4-146-HQ (2m)\$25.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 8"

KD-14-2M-HW\$38.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 8.5 to 42"
Whip: WKD142MHW

KD4-2/70\$38.99

Freq: 144-148/442-448 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 8"

Impedance matching transformer provides high Q and deeper resonance.

Hear The Difference

Industry's Best NMO Mobile Antennas

Radiall/Larsen's own version of the standard 3/4" Motorola TAD/TAE type mount uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO-27C (chrome)\$32.99

Freq: 27-31 MHz
Gain: Unity
Power: 200 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMOQ-SPEC\$13.99

Freq: 136-512 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 21"

NMO-150C (chrome)\$30.99

NMO-150B (black)\$33.99

Freq: 144-174 MHz
Gain: 3dBd
Power: 200 Watts
Type: 5/8 Wave
Base: NMO150BCO
Height: 51.75"
Whip: W490

NMO-220C (chrome)\$30.99

NMO-220B (black)\$36.99

Freq: 220-225 MHz
Gain: Unity
Power: 200 Watts
Type: 5/8 Wave
Base: NMO220BCO
Height: 34.5"
Whip: W400

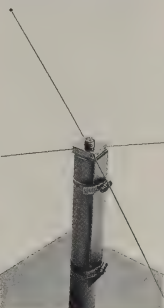
NMO-440C (chrome)\$29.99

NMO-440B (black)\$35.99

Freq: 440-460 MHz
Gain: 4.5dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Base: NMOUHFBASEB
Height: 33"
Whip: W154

Base Station Antennas

Radiall/Larsen manufactures a variety of small base station for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.



BSA-K\$53.99

Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51-3/4"

Complete base station kit for designing a base station unit from 144-512 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mobile GPS Antenna

GPS-NMO02\$69.99

Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO mount
Height: 1.3" high x 2.9" diameter

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMO-K\$15.99

Motorola style roof mount

Size: 34"
Coax: 17' RG-58A/U
Conn: PL-259



NMO-MM\$32.99

Motorola style magnetic mount

Size: 3-1/2" x 3"
Rectangle
Coax: 12' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.



RG-SS\$5.99

3 Super Seal NMO Gaskets

NMO-TLP\$29.99

Motorola style trunk lip bracket, black

Size: 1-3/4" x 1-3/4"
Coax: 17' RG-58A/U
Conn: PL-259



PO-K\$32.99

SO-239 female type roof mount

Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259



PO-MM\$36.99

SO-239 female type magnetic mount

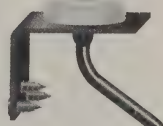
Size: 3-1/2" x 3"
Rectangle
Coax: 17' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.



TMB-34 (chrome) ..\$5.99

TMB-34B (black) ..\$7.99

Trunk mounting bracket for NMO antenna.
Size: 1-5/8" x 1-5/8"
Mount: NMO



Parts and Accessories

W-490\$8.99

Chrome .100 tapered replacement whip for 144 MHz. (49")

W-490B\$12.99

Black .100 tapered replacement whip for 144 MHz. (49")

W-2/70B\$27.99

Black .100 dia. replacement whip for NMO 2/70B (approx. 31")

SPRING\$10.99

Shock Spring

RADIAL/LARSEN
antenna technologies

Radiall/Larsen Antenna Technologies

3611 NE 112th Avenue

Vancouver, WA 98682

360 944-7551, Fax: 360 944-7556

Email: info@radiallarsen.com

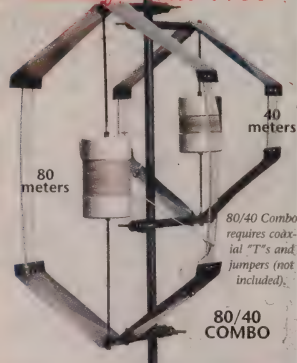
Web: www.radiallarsen.com

More RADIAL/LARSEN
See listing in Price Guide

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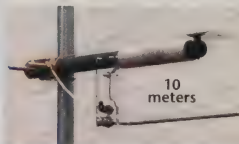


80/40 COMBO

Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

Individual Specifications:

Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
fxwx (in.)	114 x 16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16x2x4
BW	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	\$173.99	\$98.99	\$88.99	\$78.99	\$78.99	\$78.99	\$78.99



10 meters



6 meters

Multiband Models (top & right)

80/40 COMBO Same as individual model specifications above. Operate 80/40 meters with one feed line Dim: 32"x16"x30", 2.37 sq. ft. 10 lbs **\$177.99**

20/15/10 COMB Covers same as individual model specifications above. Operates 20/15/10 meters with just one feed line..... **\$198.99**

SPECIAL ORDER! - You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.

DIAMOND ANTENNA

D-130J Super Discone Copied by many, equalled by none. Professional quality. Ultra-wide-band omnidirectional - receives amateur, air traffic control, police, fire and other utilities from 25-1300 MHz. Can transmit 80-1300 MHz (50 MHz with adjustment). Rust-free stainless steel employed in major component parts. Ideal antenna for scanners and receivers. Use standard RG213 or RG8X coax. Mast mounting U-bolts included. Dim: 67"h, 2.2 lbs..... **\$99.99**

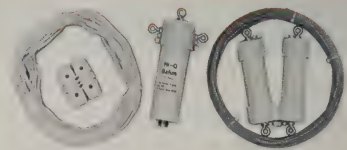


UNADILLA

W2AU/W2VS 5 Band Antenna Kit Resonant on 40 and 80M. SWR on 10, 15 and 20M will be higher (2:1 to 4:1) and a transmatch may be required to operate these bands. Includes 40M traps, W2AU balun, end insulators and 120 feet of #14 stranded antenna wire. Rated 2KW PEP, 110 feet long **\$85.99**



Van Gorden Engineering



SINGLE BAND DIPOLE ANTENNAS

Complete with Hi-Q 1:1 balun, #14 stranded copper antenna wire, plastic insulators, and 100 ft. of nylon rope. Rated for full legal power (2kW). May be used in a flat-top or in an inverted-V configuration.

D-80 80m, 130'	\$32.99
D-40 40m, 66'	29.99
D-20 20m, 33'	28.99
D-15 15m, 22'	27.99
D-10 10m, 16'	26.99

Shortened Dipoles Construction is the same, and includes traps as shown above.

SD-80 80m, 90'	\$36.99
SD-40 40m, 45'	34.99



MULTIBAND DIPOLE ANTENNAS

ALL BANDER All Bander Dipole Covers 160 to 10M using an antenna tuner with balanced output. Full 135 ft. long (or less, as an inverted V or sloper). Trim to fit small lots. Assembled, with #14 gauge copper wire, center end and insulators and 100 ft. of 450Ω twinlead line. 2KW PEP..... **\$29.99**

SHORTY All Bander As above, but with loading coils to shorten the length to 70' overall... **\$44.99**



G5RV A unique dipole configuration that covers 3.5 to 30 MHz without traps, plus covers 1.8 MHz as a Marconi-type antenna using an antenna tuner. Consists of a 102 ft. flat top with a 31 ft. long section of KW twinlead, a combination transformer-coupler and 70 ft. of RG-8X coax and connector. Assembled, rated 2KW PEP **\$50.99**

G5RV JR 7-30 MHz, 52', 17' twinlead	24.99
G5RV-E 3.5-30 MHz, 102', 31' twinlead	28.99
G5RV-M 1.8-30 MHz, 204', 65' twinlead	50.99

PARALLEL-WIRE MULTIBAND DIPOLES

Full-size, trapless multi-band dipole performance using separate resonant-length wires for each band attached to a single center 50Ω feed point.

PD-4010 40/20/15/10M, 66 feet long.....	\$38.99
PD-4020 40/20/15M, 66 feet long	34.99
PD-8010 80/40/20/15/10M, 130 ft. long	44.99
PD-8040 80/40/15M, 130 feet long	40.99

ICOM

AH-703 HF/50 MHz Five-Band Antenna
Designed for portable operation with Icom IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and 20W power capacity. The bands are covered by changing the supplied coils. Requires a PO-type base (the AH-703 terminates to a PL259). Base and coax are not supplied. Dim: 4.6 ft. high; 12 oz **\$199.99**



hy-gain

HF Vertical Antenna - An effective counterpoise replaces normal radials and ground system; Automatic bandswitching with a single coax cable feed. Each band is individually tunable. Extra wide VSWR bandwidth. End-fed with broadband matching unit. Low, 17° angle of radiation for exciting DX. DC grounded; Low, 2.5 sq. ft. wind surface area; Only a small area required for mounting easily on roofs, decks and patios. Handles full legal limit, 1500W key down for two minutes; Aircraft quality aluminum tubing, stainless steel hardware; 80 mph wind survival.

AV-620 20-6M 6-Band - No traps, coils or radials. 22.5' tall; 10.5 lbs. **\$269.99**

AV-640 40-6M 8-Band - Uses 1/4-wave stubs on 6 thru 17M and end loading and capacity hats on 15 thru 40M. 25.5 ft. tall; 17.5 lbs **\$359.99**

YAESU

Choice of the World's Top DXers™

ATAS-25 HF/VHF/UHF QRP Field Antenna - Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 and 430 MHz with band switching accomplished by changing supplied elements and adjusting coils. Matched SWR is less than 2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle (50W AM/FM); (144/430 MHz) 50W all modes; Requires camera-type tripod (not supplied); SO-239 base for PL-259; Dim: 7.2 ft. high maximum; 2.05 lbs. **\$249.99**

ATAS-120
ATAS-25



ATAS-120 HF/6/2/430 Motorized Tuning Antenna - Motor resonates the radiating element for lowest SWR using control voltages sent via the coaxial cable from Yaesu transceivers equipped for the ATAS system. Without duplexer, coaxial cable must be moved manually to correct jack when switching (VHF/UHF). Solid, sliding sections tune 20% faster than original ATAS-100. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W maximum; Less than 2:1 matched VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs **\$319.99**

ATBK-100 VHF/UHF Antenna Base Kit - Not required, generally, unless operating VHF/UHF with the ATAS-120 off-vehicle (on balcony railing, etc.), when it restores low-angle response for enhanced performance. Use with base mount. **\$99.99**

COMET

UHV-6 Designed for 6 and 2M and 70cm basic operation without tuning. Additional coverage for 40, 15 and 10 meters may be added by installing the supplied coils for those bands. Coils for 20, 17, and 80M are optional. Choose either one, two, or three coils and add one to the top, and one or two to the side, in any combination. Automatic bandswitching. Each HF element tunes independently without effecting VHF/UHF. Only 7 ft. 2 in. tall with the 40M coil attached to the top. A unique fold-over hinge pivots approximately 5 inches from the bottom for garaging, entering parking structures, etc.

Installs on any standard SO-239 (PO) type mount; no special brackets are needed. Several duplexers/ triplexers are available for all multiband radios. - see the index under duplexers for selection **\$159.99**

L-3.5 80M coil **34.99**

L-14 20M coil **29.99**

L-18 17M coil **29.99**

CF-530 1.3-90/125-470 MHz dplxr **74.99**

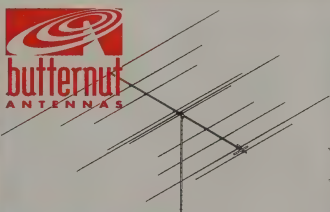
CF-706A 1.3-56/75-470 MHz dplxr **74.99**



CA-52HB4 Wide Band 6M Beam - A HB9CV designed, 4-element; 50 MHz band frequency; 50Ω impedance; <1.5:1 (50-54 MHz) VSWR; 10.4dBi; Half power angle <54°; Over 19dB F/B ratio; 400W maximum power, SSB; 7.3 ft. turning radius; SO-239 connector; 1.0 to 2.5 in. mast diameter. 4 lbs, 14 oz; Boom length 10.5 ft. **\$129.99**

butternut

ANTENNAS

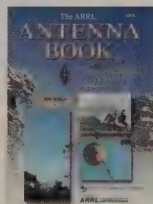


SKYHAWK 3X10 Triband Yagi - A design breakthrough. 3-band, 10-element, 20/15/10M, rust free.. **Drop Ship \$999.99**

HF-2V 80/40 Vertical 32 ft. **269.99**

HF-6VX 6-Band Vertical 26 ft. **349.99**

HF-9VX 9-Band Vertical 26 ft. **399.99**



The ARRL ANTENNA BOOK

20th Edition - The Ultimate Reference for Amateur Radio antennas transmission lines and propagation. With CD.

ARR 9043 **\$39.95**

SOLARCOM

ANTENNAS

A-99

A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCOM sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. 17 ft. 8 in. length **\$69.99**

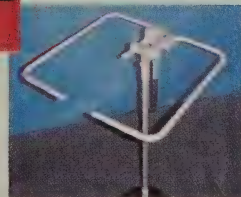


GPK-1 Groundplane Kit
Use with the A-99 for 30% more power gain and lower angle of radiation. Collar and 4 fiberglass radials **\$44.99**

M²

ANTENNAS

High Quality HF VHF/UHF



HO Loops - At times, when using highly directional VHF or UHF antennas, there are signals you cannot hear off the sides and back. The addition of an **HO-Loop** to your set-up will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings.

HO-Loops are horizontally polarized and omnidirectional, ideal for mobile or base operation with contacts up to 200 miles not uncommon. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW stacked. They're easily adjustable and have a wide bandwidth that ensures high performance regardless of the weather.

5M-HO-LOOP
50-50.3 MHz, 29.5 in. square **\$113.99**

2M-HO-LOOP
144-144.5 MHz 11.25 in. square **\$49.99**

222-HO-LOOP
220-224 MHz, 7.75 in. square **\$49.99**

432-HO-LOOP
430-436 MHz, 4.4 in. square **\$49.99**

See the Product Locator for more High performance M² antennas



BROADBAND ANTENNAS

MARS, ARES, RACES, CAP, Amateur – One antenna does all “out of band” frequencies! Single antenna solution for regular amateurs; Low cost – Compared to multiband antennas. Utilize one antenna instead of several. No need for an antenna tuner or antenna switches. Performance not limited to conventional ham bands. Operate on any frequency in the antenna's bandwidth, and have VSWR of 2:1 or better. Low Noise, capture weak signals in receive mode. Better performance than any vertical and very reliable; Simple to Use – Work any frequency you want with low SWR without measurements and tuning.

BROADBAND FOLDED DIPOLES

These antennas operate all HF frequencies continuously within their design range without an antenna tuner, plus 6M with a tuner. Install as flat top, inverted vee, or sloper. Constructed of #14 stranded copperweld or stainless steel wire. Unbalanced 50Ω input with SO-239 connector. Shipped completely assembled. Handles 2 KW PEP.

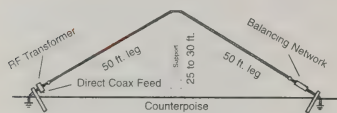
BWD-20 14-30, 20 ft., copperweld **\$179.99**

BWD-45 7-30, 45 ft., copperweld **\$189.99**

BWD-65 4-30, 65 ft., copperweld **\$199.99**

BWD-90 1.8-30, 90 ft., copperweld **\$209.99**

FDMK Folded Dipole 3-pole mtg. kit **\$39.99**



BROADBAND END-FED VEE ANTENNA

Unique design, covers 1.8-30 MHz continuous, with a VSWR of <2:1 without an antenna tuner, 6M with a tuner. Installs with termination at both ends by ground stakes (not included), and the center about 25' above the ground. Omnidirectional, high angle radiation at lower frequencies. Increased angle from 5-15 MHz, above 15 MHz more directional in the line of the antenna wire. In limited space, wire may be shortened without greatly affecting the VSWR, but lowering radiation efficiency. Excellent EMI rejection and is extra quiet to capture weak signals. Handles 2KW PEP. Fully assembled, uses #14 stranded copperweld or stainless steel. 110' long, 7 lbs.

AC-1.8-30 Copperweld wire **\$209.99**

ACS-1.8-30 Stainless steel wire **C/O \$329.99**

AP-10B Window/Portable 300W PEP Antenna A 10-40M base loaded antenna with 7-30 MHz continuous coverage, plus 2 and 6M. Tunes a low VSWR by tapping a fly lead up or down the coil and adjusting the supplied counterpoise wire. A quick and dependable antenna system when larger antennas cannot be used. Supplied with mounting bracket/clamp, counterpoise wire and 10 feet of coax **\$89.99**



High Sierra Antennas

MOTORIZED ANTENNA

PLATINUM PACK Continuous coverage, Motor Driven HF Antenna Package The HS-1800/PRO antenna provides continuous tuning from 3.5 to 30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6-foot whip provides a tuning range from 6.9 to 60 MHz. The “best antenna” for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Also a great idea for antenna-restricted QTHs, ARES/RACES and more!

Complete package, ready to install, includes the HS-1800/PRO (right) – black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 feet of control cable, wire ties, (2) PL-259's, 3 feet of ground strap and connector sealing material) **\$495**

SIDEKICK Continuous Coverage, Motor Driven HF Antenna Similar in design to the HS-1800/PRO but, only 15" tall. Comes with 3' whip. Covers 3.5-60 MHz with a 200W power rating. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with mounting bracket **\$375**

SIDEKICK I-BOX Continuous Coverage, Motor Driven HF Antenna Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers. Plugs into IC-703, 706, 718, 736, 746, 756, 765 & IC-775; no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up is less than 10 seconds **\$425**



MOTORIZED ANTENNA ACCESSORIES

HS-120 (left) Capacity Hat Six stainless steel rods with aluminum tips inserted into a brass hub. Hat diameter is 1.5 feet. Installed on the HS-1800 it's roughly equal to adding 6 more feet of whip **\$50**

HS-202CL (right) Layback Adapter Fits into a standard 2" x 2" trailer hitch receiver. Removing pin allows vertical solid rod to lay back at a 45° angle, letting a trunk, rear hatch or tail gate can be opened. Black, powder coated **\$100**

HS-214CL (right) Layback Adapter Same as above, fitting 1.25" x 1.25" hitch receiver **\$100**

Shakespeare®

VHF MARINE ANTENNAS

4187 Ratchet Mount (above) Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1"-14 male threads **\$36.99**

396-1 Center-fed 1/2 Wave Coaxial Sleeve Antenna Basic 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. 5 MHz bandwidth, 3dB gain, 50W; Shakespeare, white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; One section; 5 ft. length, 15' RG-58 cable with PL-259. Use 4187 ratchet mount **\$69.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna Economical, and a good basic 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. 5 MHz bandwidth, 3dB gain, 50W; White Shakespeare fiberglass; Brass and copper elements; Polycarbonate ferrule; One section; 5 ft. length, 15' RG-58 cable with PL-259 **\$69.99**

5101 Centennial™ End-fed Antenna with Matching Stub High-end features in an 8' antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. 5 MHz bandwidth, 6dB gain, 50W; One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1" x 14 thread; 8 ft. length; Includes 15 ft. RG-58 cable and a PL-259 coaxial connector. Use with 4187 ratchet mount **\$59.99**

5206-C End-fed Antenna, Matching Stub Economical, lightweight and self-supporting antenna for good communications where range is not the predominant factor. 3 MHz bandwidth, 6dB gain, 50W; White Shakespeare fiberglass; Chrome-plated brass ferrule; One section; DC grounded; 8' length, 15' RG-58 cable with PL-259. Use with 4187 ratchet mount **\$49.99**

5202 Collinear-phased 5/8 Wave Elements A rugged, professional quality antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. 3 MHz bandwidth, 6dB gain, 50W; White Shakespeare fiberglass; Chrome-plated brass ferrule; One section; DC grounded; 8' length, 20' RG-58 cable with PL-259. Use with 4187 ratchet mount **\$89.99**

5215 Squatty Body™ VHF Marine Antenna Frequency: VHF Marine band; 7 MHz bandwidth; 1.5:1 @ 156.8 MHz SWR; 50Ω impedance; 50W; A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. It features hermetically sealed, tin-plated copper wire coil; stainless steel body and whip SO-239 connector; stainless steel “L” bracket mount, and one section; 3dB gain, end-fed 1/2-wave; 36" long **\$39.99**

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USE YOUR CREDIT CARD

pro-am® ANTENNAS & ACCESSORIES

160-6 Meters Mobile

PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base. Assembled length on all models is 96 in. (the PHF-6 is 58 in.).

The model **DAK-AD** Dual Adapter Mount (\$13.99) accepts two antennas to make up a single band vertical or horizontal dipole which is perfect for limited space or portable operation.

Model	Band	Bandwidth	Price
PHF-160	160M	12 kHz	\$89.99
PHF-75	75M	36 kHz	\$29.99
PHF-40	40M	60 kHz	\$23.99
PHF-30	30M	100 kHz	\$23.99
PHF-20	20M	150 kHz	\$23.99
PHF-17	17M	175 kHz	\$23.99
PHF-15	15M	200 kHz	\$23.99
PHF-12	12M	300 kHz	\$23.99
PHF-10	10M	500 kHz	\$23.99
PHF-6	6M	1000 kHz	\$23.99

Thru Glass 2 Meter

GM-144 \$29.99
Mounts on windshield and operates thru-the-glass to a tuning unit mounted on the inside. Features a 27-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.5 dB over a 1/4 wave. VSWR is 1.5:1 through the band. Rated for 50W. Tunable.

Some autos have "passivated glass" which does not permit thru-glass antennas to work. Check your manual or with your dealer.



GM-144

Thru Glass 2M/70CM

GM-270 \$59.99
Dual Band 2M/70cm thru-the-glass antenna featuring a 26-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.6 dB over a 1/4 wave at 2m and 4.0 dB over 1/4 wave at 70 cm. VSWR is <2:1 through the bands. Rated for 50W. Tunable.



GM-270

TGS \$34.99

Thru-the-glass Scanner Antenna for 112-1200 MHz receive only. Looks like GM-270, 22 in. tall, complete with cable connectors and mounting hardware.

PMM-3B \$19.99

Tri-Band (40W) 2M / (24W) 70cm + (15W) 824-896 MHz (Cellular/Scanner). Similar to VAA-002BN MICRO-MAG™ above. Only 13-1/2 in. tall with 9 ft. coax and BNC.

PAS \$19.99

Motorola-style surface mount with 17 ft. of RG-58 cable and PL-259 connector. Installs in 3/4" hole in roof, fender or cowl mount.

PASMO \$7.99

Motorola-style 3/4" hole surface mount only, less cable and connector

Magnet Mount Antennas

VAA-002B \$23.99

2 meter 1/4 wave antenna with a 3-1/4 in. magnetic base, 19 in. 17-7ph stainless steel whip and 12 ft. of cable with PL-259 connector. Can also be trimmed for 220 or 450 MHz operation. Black finish.

VAA-002BBN \$24.99

Same, but with BNC connector

PM-144-440BN \$29.99

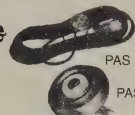
Dual band: 2M (unity gain) and 440 MHz (2.1dB gain), 18-3/4 in. tall with 3 in. dia. magnetic base and 12 ft. of RG-58 cable with BNC connector

PM-144-440BN looks similar VAA-002BBN except it has an open loading coil in the center of the whip section



MM-270B

VAA-002BBN



PAS

PASMO

Multi-Band Mobile

AB-5 \$119.99

Consists of a 4 ft. aluminum mast and tri-top adapter with resonators included for 10, 15, 20, 40 and 75 meters. Also operates on 6 meters. Mast fits any standard 3/8" x 24 thread mobile mount. The 10, 15, and 20 meter resonators work without extra tuning. The interchangeable 40 and 75 meter resonators are easily tuned with their tunable tips.

AB-5

Dual Band 2M & 70CM +

MO144-440 \$21.99

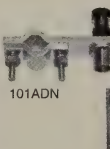
A dual band antenna to over it all! 19" Covers 2M/70cm plus works great for all band scanners 25 MHz-1.3 GHz. Stainless steel whip. Mount with 1-1/8" threads match 3/4" hole pro-am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4 wave on 70 cm.

MO144-440

Mounts

105AD \$6.99

Mount assembly. Nickel plated brass SO-239 and extra HD hex. For Plug to plug connections.



101ADN

100ADT

105HD \$3.99

Mount assembly. Bolt mounts through a 1/2 in. hole. Extra HD-duty nickel plated brass hex. For plug to plug.

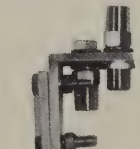
103S \$24.99

Quick disconnects for quick antenna removal One 3/8" x 24 base and five spring loaded twist-lock connectors.



120 \$7.99

Radio Hump Mount. Saw-tooth design grips without damage to carpet. Adjustable, steel, baked black finish.



100ADT \$9.99

Extra heavy duty aluminum 3-way mirror mount. 3/8" x 24 mount and SO-239 connection

100ADN \$10.99

Extra heavy-duty aluminum double groove Mirror Mount with 3/8" x 24 mount and SO-239 connection.

SS-100MOT \$23.99

Stainless steel 3-way Mirror Mount with Motorola-style mount. Includes 10 ft. of RG-58 cable with PL-259.

DAK-AD \$13.99

Dipole Adapter Mount with one Lug and one SO-239. Accepts two PHF or other 3/8" x 24 antennas for vertical or horizontal dipole.

Utility

PAQA \$9.99

A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro-am and 3/4" hole Motorola TAD/TAE mounts. Includes cutting chart.



PAQA

PAT-2 \$19.99

A chrome low profile trunk-lip mount including 17 ft. of RG-58 cable with PL-250 connector. Model PAT-2B is BLACK.

PAM \$24.99

A 3-3/4 in. diameter low profile magnet Motorola mount pre-wired with 12 ft. of RG-58 cable to a PL-259 connector. Model PAMB is BLACK.

301 \$16.99

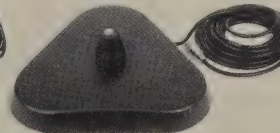
4 in. dia. with 3/8" x 24 mount.

401 \$19.99

5 in. dia. with 3/8" x 24 mount.

BNC-SC-RS \$14.99

Suction cup mount for ducks, etc. With 7 ft. RG-174/U cable w/male and female BNCs.



PAN-3B \$14.99

3/8" x 24 to NMO mount adapter

MM-3401 \$59.99

Heavy Duty magnet mount for NMO based antennas with adapter for 3/8" x 24 thread. Features three 5 in. dia. magnets on a heavy duty aluminum frame protected by an ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2"H. Wt: 8 lbs.

CX-144

PHB-144

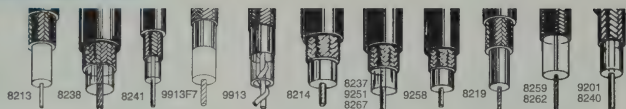
2 Meters

PHB-144 \$29.99

5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro-am and 3/4 in. hole Motorola TAD/TAE mounts. Rated 100W, whip length 49 in.

CX-144 \$19.99

5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with standard 3/8" x 24 chrome-plated base. Rated at 100W, length 49 in.



COAXIAL CABLE

See Belden in the Price Guide

Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black, non-contaminating PVC	50Ω	66%	5.4 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black, non-contaminating PVC	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black & Belflex®	50Ω	84%	1.5 dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	AWG 14 solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

ROTOR CABLE

8448 Standard duty, 8 wire. Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

9405 Heavy duty, 8 wire. Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

8484 Standard duty, 4 wire. Four #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

PREASSEMBLED COAXIAL HOOK-UPS

9354 50' RG-8/U low-loss foam, PL-259s **\$59.99**

9355 75' RG-8/U low-loss foam, PL-259s **79.99**

9356 100' RG-8/U low-loss foam, PL-259s **89.99**

ANTENNA & GROUND WIRE

8000 #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

8018 #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft.

Connecting you to the World™

CABLE XPERTS™

FLAT BRAIDED GROUND STRAP

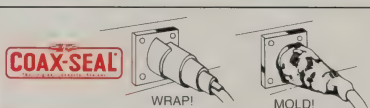
Flat, flexible, and tinned for easy soldering. The 1 in. wide size is recommended for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lightning protection.

2332 1/2 in., 10 gauge, rated at 53A.... per ft. **69¢**

2332 100 100 ft. roll of above..... **\$60.99**

2335 1 in., 7 gauge, rated at 85 amps per ft. \$1.13

235 100 100 ft. roll of above..... **\$105.99**



UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial fittings, baluns, antenna parts and connectors. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature for years to resist moisture penetration and deterioration. Its permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non toxic and non-contaminating roll, 1/2" x w x 60" **\$3.99**

DACRON® GUY ROPE



Black Dacron® Polyester Rope – Constructed of strong double braid Dacron® polyester. It's black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and ends seal effectively with the application of a small flame or hot tool.

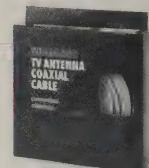
After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. When used as an overhead boom support rope for beam antennas, it eliminates a conductive wire from the RF field, which is especially important in VHF/UHF applications.

100' 100 ft., 260+ lbs., 3/32 in. **\$7.99**

100' 3/16 100 ft., 770+ lbs., 3/16 in. **16.99**

100' 5/16 100 ft., 1790+ lbs., 5/16 in. **22.99**

350' 350 ft., 770+ lbs., 3/16 in. **44.99**



TV-2900

RG-6 75Ω TV Coaxial Cable with cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are already installed.

CX-0625 25 ft. length **\$10.99**

CX-0650 50 ft. length **15.99**

CX-0675 75 ft. length **19.99**

CX-6100 100 ft. length **24.99**

TV-2900 Weatherproof Transformer 82 channel matching transformer for indoor or outdoor use. Adapts 75Ω coaxial cable with F-connector to terminals of a 300Ω TV antenna, TV set or coupler. Includes F-connector and weather boot..... **\$2.99**

KENWOOD



LF-30A Low-Pass Filter Suppresses harmonics contained in RF signals from HF transmitters to reduce the possibility of TVI and BCI. Features a 30 MHz cutoff for 160-10M operation and provides >90dB attenuation from 90-300 MHz. Insertion loss: <0.5dB @ 30 MHz; Impedance: 50Ω; Power: 1 KW PER. Dim: 9.6" w x 2" h x 1.5" d; 1.2 lbs **\$64.99**

CXP1318FC
C05300000

READY-MADE COAX CABLE ASSEMBLIES

CXP1318FC

Connector: PL259 both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 2 (100% bonded foil+95%TC Braid) V/P 84%
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP1318FN

Connector: "N" Male both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 2 (100% bonded foil+95%TC Braid) V/P 84%
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP213C

Connector: PL259 both ends.
Burial: Yes. UV Resistant: Yes.
Shields: 1 (97%BC Braid) V/P 66%
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

CXP008C

Connector: PL259 both ends.
Burial: No. UV Resistant: Yes.
Shields: 1 (95%BC Braid) V/P 78%
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP08XC

Connector: PL259 both ends.
Burial: No. UV Resistant: Yes.
Shields: 1 (95%BC Braid) V/P 78%
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

BRAIDED GROUND STRAP

Sizes: 1/2" wide
or 1" wide

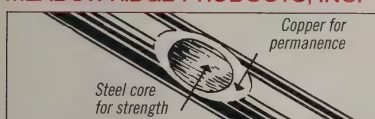


SILVER, TEFLON[®]
CONNECTORS.

CABLE X-PERTS, INC.
Connecting You to the World...

See Price Guide for Cable X-perts pricing.

MEADOW RIDGE PRODUCTS, INC.



COPPERWELD[®] Antenna Wire Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire – the best for antennas. Very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. 12, 14 or 18 gauge.

AN-122	100 ft. #12.....	\$29.99
AN-123	150 ft. #12.....	39.99
AN-124	250 ft. #12.....	59.99
AN-126	500 ft. #12.....	99.99
AN-128	1000 ft. #12.....	179.99
AN-142	100 ft. #14.....	24.99
AN-143	150 ft. #14.....	29.99
AN-144	250 ft. #14.....	39.99
AN-146	500 ft. #14.....	69.99
AN-148	1000 ft. #14.....	119.99
AN-181	250 ft. #18.....	17.99
AN-182	500 ft. #18.....	29.99



ROTARY COAX CABLE STRIPPERS

For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

24-7735P	for RG-58, RG-59, RG-62.....	\$21.99
24-7736P	for RG-6, RG-59, 8281.....	21.99
24-7739P	for RG-8, RG-11, RG-213.....	28.99

Used & Demo
Equipment lists

Updated regularly on the web.
Check them out and order **On-line**



STUF Dielectric Water-proof Connector Filler
Seals out moisture. High purity macroscopic foam that dielectrically simulates the coaxial cable core. Fill coax connectors and tighten. The filler material hydraulically channels into all connector voids and points of moisture entry. Non-hardening, easy to remove. No silicone, or other additives to harm coax cable material..... (tube) **\$4.99**

Van Gorden Engineering

BALUNS & INSULATORS

Hi-Q 1:1 or Hi-Q 4:1 Baluns

For dipoles, yagis, inverted vees and doublets. Provides 1:1 or 4:1 impedance ratio for matching unbalanced coaxial cable to balanced antennas. Covers 3-40MHz with a 1.5KW rating. Reduces feedline radiation for more power into antenna, and reduced TVI/BCI problems. Built-in DC ground reduces static noise and provides some lightning protection. Convenient SO-239 connector and center support eye hook; weatherproof ea. **\$14.99**

ANTENNA CENTER Hi-Q

Antenna Center Insulator
Insulator only, no balun. Replaces egg-type center insulator. Small, rugged, lightweight, weatherproof, SO-239 connector, center supporting eye hook..... **\$6.99**

ANTENNA END IN End insulators. pair **\$4.99**

DOG BONE Antenna insulator..... each **99¢**



PENETROXTM

PENETROX[®] A Recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, on bare conductors, and bus bars. Good for all voltages. Assures a high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Makes later disassembly a breeze..... (4oz bottle) **\$12.99**



LADDER LINE

450 OHM 100	18 ga. 100' insulated.....	\$14.99
450 OHM 14 100	14 ga. 100' insulated.....	29.99
450 OHM 1000	18 ga. 1000' insulated.....	109.99
450 OHM 14 1000	14 ga. 1000' insul.....	229.99

WHITE NYLON ROPE

NR-100	100' roll, antenna guy rope.....	\$4.99
NR-1000	1000' roll, antenna guy rope.....	44.99

N CONNECTOR

N CONNECTOR Male connector for Belden 9913 and 8214 coax..... **\$4.99**

PREASSEMBLED COAXIAL HOOK-UPS

8X-1.5ST	1.5' RG-8X, silver-tef. PL-259s.....	\$7.99
8X-3ST	3' RG-8X w/silver-teflon PL-259s.....	8.99
8X-6ST	6' RG-8X w/silver-teflon PL-259s.....	10.99
8X-12ST	12' RG-8X, silver-teflon PL-259s.....	11.99
8X-25ST	25' RG-8X, silver-teflon PL-259s.....	15.99
8X-50ST	50' RG-8X, silver-teflon PL-259s.....	24.99
8X-75ST	75' RG-8X, silver-teflon PL-259s.....	31.99
8X-100ST	100' RG-8X, silver-tef. PL-259s.....	37.99
213-25ST	25' RG-213, silver-tef. PL-259s.....	25.99
213-50ST	50' RG-213, silver-tef. PL-259s.....	38.99
213-75ST	75' RG-213, silver-tef. PL-259s.....	54.99
213-100ST	100' RG-213, sil-tef. PL-259.....	72.99

**UNADILLA****W2AU FERRITE BALUNS**

These baluns replace the antenna center insulator and provide a smooth transition from unbalanced coaxial transmission lines to balanced antennas; dipoles, quads and yagis. Produces proper current distribution resulting in reduced feedline radiation for maximum power transfer, gain and reduced TVI/BCI. DC grounded for lightning protection, center eye hook for support. Usable from 1.8-40 MHz, 2KW PEP, SO-239 connector.

- W2AU 1:1** 1.1, 1.8-40 MHz ferrite **\$24.99**
W2AU 4:1 1.1, 1.8-40 MHz ferrite **\$24.99**
W2AU BEAM 1.1, Beam balun **\$24.99**

W2DU CHOKE BALUNS

These are High efficiency, transformerless 1:1 baluns. The HF model is the only one available that works on 160 meters! They all handle a VSWR up to 5:1 at the legal power limit, allowing use with antenna tuners. The VHF model eliminates the usual rod and tube hardware balun assembly normally used at those frequencies.

- W2DU-HF** 1:1, 1.8-30 MHz Choke **\$26.99**
W2DU-VHF 1:1, 30-250 MHz Choke **\$26.99**
W2DU BEAM 1:1, 40-10m choke **\$26.99**

REYCO ANTENNA TRAPS

Add these traps to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "perfect dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 and 160M with low SWR.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

- KW-10** 10M pair **\$41.99**
KW-12 12M pair **\$41.99**
KW-15 15M pair **\$41.99**
KW-17 17M pair **\$41.99**
KW-20 20M pair **\$41.99**
KW-30 30M pair **\$42.99**
KW-40 40M pair **\$42.99**
KW-80CW 80M CW pair **\$48.99**
KW-80F 80M Phone pair **\$48.99**



HA AN-Insulator™ (left) A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" dia **\$9.99**

HE END-Insulator™ (right) Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" dia. pair **\$6.99**



We accept I.M.P.A.C.® Government Credit Cards

**Automatic Antenna Tuners & Accessories**

Common Tuner Features: • 1.8 to 54 MHz Coverage • Microprocessor-controlled "L" Network analyzes SWR, automatically tunes antennas and retains settings in memory • Tunes all Coax-fed dipoles, Verticals, etc. • Optional baluns for ladder line and end-fed antennas • 12V DC (nominal) operation • Low Power Consumption



AT-100PRO Autotuner – Rated at 1-125W SSB & CW. Over 4200 memories for instantaneous band changing. Built-in two-position antenna switch with separate memories for each antenna. EZ-to Read LED bargraph shows RF power, SWR, and a Function key allows access to mode and status data. Tuned configuration is retained indefinitely even when powered down. Dim: 7.5" w x 5.5" h x 2.0" d; 1.5 lbs **\$199.99**



FREE
Balun from LDG
with AT-200PRO
purchase until
6/30/05

AT-200PRO Auto Tuner – Rated 5-200W SSB/CW (100W on 6M). 16,000 3D memories for instantaneous band changing. Two position antenna switch with memories for four antennas on each position. Dim: 8.5" w x 2.0" h x 6" d; 6 lbs **\$229.99**



AT-1000 Desktop High Power Automatic Antenna Tuner – Rated: 1000W SSB, 750W CW and 500W Digital (100W on 6M). Up/down push buttons allow manual fine tuning. Cross-needle meter simultaneously shows forward, reverse PWR & SWR. Dim: 13" w x 3" h x 9" d; 6 lbs **\$549.99**



AT-897 Automatic Antenna Tuner – A specialized bolt-on tuner for the Yaesu FT-897; an alternative to the Yaesu FC-30. Consumes ZERO power when not tuning, perfect for battery operation. Powers from the FT-897 CAT port. A second CAT port allows simultaneous use of computer control and tuner. Dim: 1.5" w x 3.25" h x 10.5" d; 2 lbs **\$199.99**

TW-1 Talking Wattmeter

Unique! – Speaks Forward, & Reverse power in Watts, and SWR in English, Spanish or German. Select variable (depending on power level) continuous tone for making amplifier or tuner adjustments. Autoranging: 2-2000W, 1.8-54 MHz. Dim: 4.5" w x 3" h x 5" d; 1 lb **\$149.99**



Z-100 Automatic Antenna Tuner – Power consumption is near ZERO when not tuning – perfect for battery operation. Rated: 0.1-125W (50W on 6M). 200 fast memories. Latching relays allow the Z-100 to be powered off once tuned. Optional interfaces for DC power and control for Alinco, Icom, Kenwood and Yaesu radios. Dim: 5.5" w x 1.5" h x 5.25" d; 14 oz **\$149.99**



RT-11 Remote Mounting Automatic Antenna Tuner – For Mobile, Marine, and Remote applications. Weather resistant, ABS plastic enclosure with mounting flanges. Rated: 0.1-125W (50W on 6M). Latching relays allow powering-off once tuned. Optional remote head and interface cables for Alinco, Icom and Kenwood radios. Dim: 8.5" w x 3" h x 5.5" d; 2.5 lbs **\$199.99**

RT-REMOTE Remote Control Head – Exclusively for the RT-11, allowing control of all functions. Dim: 4.0" w x 2.2" d x 0.8" h; 1 lb **\$39.99**

INTERFACES

Y-OTT One Touch interface – Plugs into the CAT connector on the back of Yaesu FT-100D, 817, 857 and FT-897. Powers LDG Z-100, AT-100Pro or AT-11MP, directly from the radio (except FT-817), without an additional power source. Press the TUNE button on the tuner and the interface changes the mode on the radio and commands it to transmit. After tuning, the radio is restored to the previous mode. **\$59.99**

K-OTT One-Touch interface Plugs into ANY Kenwood radio that supports the Kenwood AT-300 or AT-50 antenna tuners and provides power and control signals for the LDG Z-100, AT-100Pro, AT-11 or RT-11. Allows the user to activate the tuning sequence or bypass the autotuner right from the front panel of the radio **\$59.99**

INTERFACE CABLES

for the AT-100Pro, Z-100 & RT-11

- AL-IC1** Alinco 10 ft. Interface Cable **\$20.99**
Icom-IC1 Icom 10 ft. Interface cable **\$20.99**
Icom-IC2 Icom 8 in. interface cable **\$8.99**

BALUNS

Tune Balanced Line and Long Wires antennas with LDG Automatic Antenna Tuners or with any of your own antenna projects. Rated: 200W from 1.8 to 30 MHz. Dim: 2" w x 1.5" d x 4.5" d; Wt. 6 oz.

Order **RBA-1:1** 1:1 or **RBA-4:1** 4:1ea. **\$30.99**

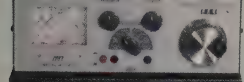
MFJ ANTENNA TUNERS



902



922



994

MFJ...
the World Leader in
Amateur Radio
Accessories

902 Tiny Travel Tuner Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter **\$79.99**

922 VHF/UHF Dual Band Antenna Tuner Great for HTs, mobiles or amps up to 150W. Using the included tool, adjust your antenna system for a low SWR on VHF, 136-175 MHz and UHF, 420-460 MHz. Meter reads both SWR and power in 60/150W ranges. 4" x 2" x 1.25"-carry it in your car, while camping, etc..... **\$79.99**

945E Mobile Tuner Covers 1.8-30 MHz plus 6M, and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 and 5/30W ranges. Dim: 8" w x 2" h x 6" d **\$99.99**

941E Versa Tuner II Covers 1.8-30 MHz and rated at 300W PEP. *Matches everything!* - coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an external dummy load. Dim: 10.625" w x 2.875" h x 7" d..... **\$109.99**

934 Antenna Tuner/Artificial Ground - Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8-30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 7" d **\$169.99**

948 All the features of the 941E without the dummy load. Has larger lighted peak reading cross-needle SWR/power meter..... **\$119.99**

949E Deluxe Versa Tuner II - Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in 50Ω dummy load. Dim: 10.625" w x 2.875" h x 7" d. **\$139.99**

969 Deluxe Versa Tuner II - Covers 6-160M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 50Ω 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d..... **\$189.99**

962D Versa Tuner III - Covers 1.8-30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has a built-in 4:1 balun. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru), random and balanced lines. Dim: 10.5" w x 3.875" h x 15" d... **\$249.99**

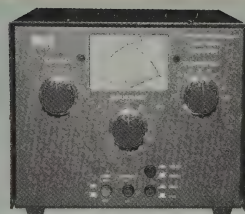
986 Differential-T Tuner™ - Covers 1.8-30 MHz , rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d..... **\$299.99**

989C Versa Tuner V - Covers 1.8-30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 50Ω 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. 10.75" w x 4.5" h x 15" d... **\$319.99**

993 IntelliTuner™ 300W Auto Tuner - Measures, calculates, then automatically tunes. Remembers most balanced/unbalanced antenna from 1.8-30 MHz to 300W SSB or 150W CW. Cross-needle meter shows forward/reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. Manual tuning possible without transmit; 4:1 current balun; Matches 6 to 1600Ω; Audible SWR indicator; 2-position antenna switch. Dim: 10" w x 2.75" h x 9" d **\$239.99**

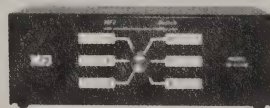
991 IntelliTuner™ 150W Auto Tuner - Similar to 993, but rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200Ω **\$199.99**

994 IntelliTuner™ 600W Auto Tuner - Rated 600W SSB/300W CW 993 (looks like 991), but no digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800Ω. Low power tuning with any external amp bypassed..... **\$329.99**



974H Balanced Line Tuner - Matches transceivers to virtually any balanced-line fed antenna. Peak and average forward power, reflected power, and SWR are displayed on a 3 inch illuminated Cross-needle meter. Matching Range: 12-2000Ω continuously from 1.8-54 MHz. Power: 300W SSB PEP transmitter output, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80-10 meters with sperate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d..... **\$189.99**

974 Balanced Line Antenna Tuner - Same as the 974H but 3.5-54 MHz (no 1.8 MHz) **\$169.99**



1703 Antenna/Transmitter RF Safety Switch Connects two rigs and two antennas, and switches between the two. Designed to keep your transceiver from transmitting while not terminated. Usable from 1.8-30 MHz and is rated at up to 300W PEP SSB/150W CW on 50-75Ω unbalanced lines. All metal cabinet with mounting tabs **\$19.99**

VECTRONICS



VC-300M Mobile Tuner Compact, lightweight for base or mobile. Tunes verticals, dipoles, inverted Vs, beams and mobile whips fed by coaxial cable. Covers 1.8-30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR. Dim: 7.25" w x 3.5" h x 8.75" d, 2.5 lbs **\$99.99**



VC-300DLP Antenna Tuner - A quality, economical 1.8 to 30MHz tuner. Power: 300W continuous 3.5 to 30MHz, 150W on 1.8 MHz. Compatible with most antennas; coax fed, balanced or single wire. Cross-Needle Peak or Average meter. Built-in dummy load, 4:1 balun and 6-position antenna switch. Dim: 10.25" w x 9.5" d x 3.5" h; 3.5 lbs. **\$149.99**

ANTENNA TUNER

ATR-30 True Legal Limit™ Antenna Tuner Covers 1.8-30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Cross-needle, peak-reading SWR/wattmeter, 3000/300W ranges, measures peak/average forward/reflected power plus VSWR, illum. Includes 3-core choke balun, 6-position antenna switch and 6:1 vernier reduction drives, turns counter. Requires 12VDC or internal 9V. **\$549.99**

REMOTE CONTROLLED ANTENNA SWITCHES

RCS-4 Select up to 4 different HF antennas by supplying control voltages thru the coax without the need for a separate control line. The weatherproof switch box can be tower, most or wall mounted. Uses 3 heavy duty 10A contact relays on a fiberglass circuit board 5.25"d x 7"w x 3"h; 120VAC Rated 1.8-30 MHz, 2KW; Safe 14VDC control; Indoor control console locates at operating position. Dim: 6"d x 6"w x 2.5"h **\$129.99**

RCS-8V Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW below 30 MHz, and 1KW up to 150 MHz. **\$139.99**

RCS-8VN Same as RCS-8V but with N-type female connectors **\$149.99**

RCS-10 Select up to eight HF antennas using one feed line and a single four conductor control line (not supplied). Long life sealed relays with 16A current rating. Up to 100 MHz with low VSWR. Over 5KW below 30 MHz (matched) **\$149.99**

Palomar Engineers

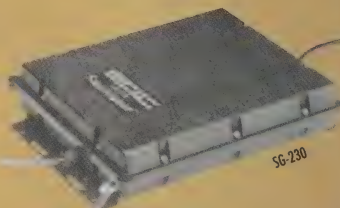
PT-340 Tuner-Eliminate QRM, overheated final tubes & devices by adjusting the station antenna tuner without transmitting. Installs permanently between rig and tuner. Just turn on, and listen to the noise output in a receiver, then adjust the station tuner controls for a dip in the noise (a null). Covers 1.7-30 MHz. Uses 9V battery. Dim: 6"w x 5"h x 3"d **\$99.99**

SGC



ANTENNA CONTROLLER

54-25 MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smarttuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system.; 1.8-60 MHz; 1.5-200W; 168 memories; Pi configuration; 230mA average current; < 2 second random set time. Dim 8.5"l x 6.5"w x 3"h; 5 lbs **\$249.99**



ANTENNA TUNERS

SGC

Smarttuners™ Stop tuning, start talking!

54-26 SG-211 Zero Power Consumption Smarttuner™ The SG-211, SGC's newest Smarttuner, provides the ZERO power consumption features you've wanted. This compact unit runs on 4 AA cells for 5 years. Lightweight, with no external power required, yet able to tune a 10:1 mismatch or worse. The unit features a naturally balanced output, capable of tuning most antennas. One external LED indicates tune, no tune and low battery. The SG-211 is the perfect companion for traveling or backpacking.; 1.8 to 60 MHz; 60 Watts. Dim: 8.66"l x 4.69"w x 1.55"h; 1 lb **\$179.99**

SGC Smarttuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smarttuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smarttuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.0 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation. Your choice for antenna tuning should be an SGC Smarttuner.

54-14 SG-230 Original Smarttuner™ 1.8-30 MHz; 200W, 16.2"l x 12.2"w x 3.2"h; 8 lbs **\$489.99**

54-15 SG-235 High Power 1.8 to 30 MHz; 500W; 16.2"l x 12.2"w x 3.2"h; 8 lbs **\$1169.99**

54-17 SG-231 Precision Smarttuner™ 1 to 60 MHz; 100W; 11.5"l x 10.2"w x 3.2"h; 3.8lb C/O **\$499.99**

54-18 SG-237 General Purpose Smarttuner™ 1.8 to 60 MHz; 100W; 9"l x 7"w x 1.5"h; 2 lbs. **\$359.99**

54-22 SG-239 Budget Smarttuner™ 1.8 to 30 MHz; 200W; 7.5"l x 6"w x 1.9"h; 2 lbs **\$179.99**

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ANTENNA TUNERS

Palstar, Inc. - High quality, Antenna Tuners designed by Hams for Hams. American made, solidly constructed and Built to Last.



AT-1KM Tuner - Featuring Differential Capacitor tuning with two stators and one rotor. Ease of use utilizing only two controls to operate for tuning with a Palstar designed precision ceramic body roller inductor and high power balun. Covers 1.8-30 MHz and rated 1200W SSB. Wide impedance matching range; Illuminated Cross-Needle SWR/Wattmeter with 0-300W/0-3000W ranges; Powder coated panel and top cover. Dim: 10.5" w x 4.5" h x 11" d; 8 lbs **\$359.99**

AT-1500CV

T-type Tuner

Low profile, handles up to 1500 Watts SSB. Features an edge-wound, silver-plated, roller inductor for high power use. Covers 1.8-30 MHz matching dipoles, center-fed doublets, GSRV's, balanced feeders, verticals, single wires, delta loops, beams, windoms, V's, etc. Built in 4:1 balun for balanced feeders; 6-position antenna selector switching and bypass position for straight-thru use with SWR and power monitoring; Average power reading to 3000W; Lighted Cross-Needle SWR/Wattmeter. Dim: 12.5" w x 4.5" h x 12" d; 10 lbs **\$449.99**



BT-1500A

Dual-Roller Balanced-L Tuner

Fills the void for a matching network up to 1500W SSB for Balanced Line Antennas, 160-10M. For ease of use, the BT1500A utilizes only two controls for tuning with two direct-coupled precision silver-plated ceramic roller inductors, crank handle driven Cross-Needle metering with backlighting. Ferrite 1:1 input balun; Vernier drive for smooth tuning. The front panel and top cover are powder-coated. Dim: 13" w x 6" h x 16" d; 17 lbs **\$695.99**



AT-4K

T-Match Network

In the typical unbalanced 4:1 balun tuner the balun is exposed to impedance and reactance that it's not designed to handle. The AT4K utilizes a 1:1 unbalanced-to-balanced transformer at the input. When properly tuned, a 50 ohm impedance will be presented both to the input and output. Rated 2500W single tone continuous; Unbalanced and Balanced output with high-power balun at the input; T-Match circuit (8-2000Ω); Custom, large value (500pf), variable capacitors (6kV rated); 10 Amp, edge-wound, solid copper, silver-plated roller inductor; Cross-needle SWR/Wattmeter. Dim: 7" w x 15" w x 16" d; 20 lbs **\$895.99**



ICOM

AH-2B Antenna Element - Provides 7 thru 50 MHz mobile operation when used with the AH-4 antenna tuner. Includes hardware for mounting to a tow bar, 8.2 ft. antenna **\$299.99**



AH-4 Automatic Antenna Tuner - Covers 3.5 to 54 MHz using a 23 ft. or longer wire antenna, or 7 to 54 MHz with optional AH-2B Antenna Element. It measures 6.7" w x 2.7" h x 9" d for easy installation in a variety of locations. Its weather-resistant construction, using rubber gasket seals, enables operation in all conditions. Handles 120W PEP, requires only 5-15W for tuning. Designed for use with ICOM HF transceivers - just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. There are up to 45 memories that store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables and PL-259s. Requires 13.8 VDC. **\$259.99**

MFJ

ANTENNA MOUNTS



340 Mirror or Luggage Mount - Mount VHF/UHF and medium-size HF antennas on mirror, luggage rack or spare tire carrier of vehicle **\$34.99**

345 Trunk/Hatchback Lip Mount - Mounts on any lip on your vehicle. An extra-wide 4-inch lip and large reinforcing tabs on each side distributes the load. Mounts at any angle **\$34.99**



PT-3 Preamplifier - Covers 2-54 MHz and useable with either a receiver or transceiver. A tunable low noise dual-gate FET circuit provides >20dB gain, low N.F. and improved spurious and image rejection. An RF sensed switch with variable delay automatically bypasses the antenna on transmit. Second receiver or antenna capability. 12V DC, or use P-12T AC adapter (\$9.99). Dim: 2.5" h x 8.75" w x 6.5" d **\$139.99**



TPA Tunable Preamplifier and Active Antenna

Covers 0.22 to 30 MHz and useable as a preamplifier to improve receiver gain, or as an indoor active antenna with the built-in 30 in. collapsible whip. The input matches most long wire, 300Ω and random length antennas. A dual-gate FET provides an excellent N.F. and >20 dB gain. Uses 9V battery or P-9T AC adapter (\$9.99). Dim: 1.5" h x 8" w x 6.5" d **\$79.99**

COAXIAL ANTENNA SWITCHES

ALPHA DELTA COMMUNICATIONS, INC.

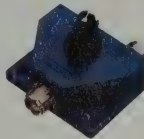


Two and Four Position Switches
Full Product Descriptions on p. 99

DAIWA

CS-201 2-Position Coaxial Switch

A high quality switch with excellent high frequency RF characteristics due to cavity and heavy die-cast metal construction. Frequency range up to 600 MHz with less than 0.12 VSWR. Less than 0.2dB insertion loss and 60dB isolation between terminals. Handles 2.5 KW PEP or 1KW CW. Auto grounding of unused terminals. SO-239 connectors **\$26.99**



MFJ

1700C Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six rigs in any combination. For 50 or 75Ω, rated 2KW PEP or 1KW CW from 1.8-30 MHz. Dim: 10" w x 3" h x 1.5" d **\$99.99**



1701 Antenna Switch - Six positions, 50-75Ω. Rated for 2KW PEP or 1KW CW from 1.8-30 MHz. Grounds unused positions for surge protection. Dim: 10" w x 3" h x 1.5" d **\$59.99**



1702C Antenna Switch - Two positions + center ground, 50Ω, rated to 500 MHz. Handles for 2.5KW PEP or 1KW CW. Less than 0.2dB loss and greater than 60dB isolation @ 300; 50dB @ 450 MHz. Grounds unused positions for surge protection. **\$24.99**

1702CN - Uses type-N connectors for lowest loss on UHF. Good up to 1.1 GHz **\$34.99**

1704 Antenna Switch - Four positions + center ground, 50Ω, rated to 500 MHz. Handles 2.5KW PEP, 1KW CW. Less than 0.2dB loss and greater than 50 dB isolation @ 500 MHz. Includes lightning protection with a replaceable gas-tube **\$64.99**

1704N - Uses type-N connectors **\$74.99**



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ANTENNA ACCESSORIES

133

DUPLEXERS

Type	S0239 PL259/PL259	S0239 PL259/Nfemale	S0239 S0239/S0239	S0239 PL259/PL259	S0239 PL259/Nfemale	Nfemale PL259/Nfemale	PL259 S0239/S0239
Leads	No	No	No	Yes	Yes	No	Yes
2m/440	Comet CF4160K Diamond MX72D MFJ 916B	Comet CF4160I	Comet CF4160J	Comet CF416A Comet CF530 Diamond MX72H	Comet CF416B Diamond MX72N Yaesu AD3	Comet CF416C Comet CF416W	
2m/220	Diamond MX214D			Comet CF142			
HF/6 to 440				Comet CF360A			Comet CF360B
HF to 6/2m				Comet CF706A Diamond MX62M			

TRIPLEXERS

Type	Leads	HF/6/2/440/1200	HF/6/2/440	2/220/440
Nfemale PL259/PL259/Nfemale	No	Comet CFX4310C		
S0239 PL259/PL259/PL259	Yes	Diamond MX2000	Comet CFX514	Comet CFX324A Diamond MX324
S0239 PL259/PL259/PL259	No		Comet CFX5140	Comet CFX324B Diamond MX324D
Nfemale PL259/PL259/Nfemale	Yes	Diamond MX3000		
S0239 PL259/PL259/Nfemale	Yes		Comet CFX514N	
S0239 S0239/S0239/S0239	No		Comet CFX514J	



For Duplexer/Triplexer prices, see the Price Guide under each respective manufacturer.

LADDER LINE CENTER SUPPORT

Ladder-Loc®

Center Insulator and Support – Provides a secure attachment of 450 ohm ladderline to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for attaching a center support rope. UV resistant **\$12.99**



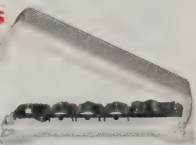
MFJ



1925/192512 Controller for Yaesu ATAS Antennas & Icom 706 Series – An in-line switch that controls motorized up/down tuning function of screwdriver antennas by putting the DC control voltage on the center conductor of the coax. The 1925 Works with most rigs except the Icom IC-706 series, which requires a special 192512 control cable. When the up/down switch is pressed, the 706 will transmit 10W CW while monitoring for lowest SWR. When switch is released, the 706 returns to previous mode and power ea. **\$59.99**

Kleinhuys

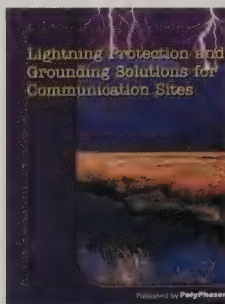
1309 Isolated Ground Bar – For grounding data patch panel racks and marine applications. Provides additional panel, sub panel or control panel grounding. Lay-in style. Adapts easily for design/build applications, mounts to back panel or wall surface. Corrosion resistant, nickel-plated, copper clamping rail. Includes locking protective hinged cover. UL listed, CSA approved. 600V max. Accepts 8-12 (AWG) stranded or solid copper wire. 7.5" w x 1.75" h **\$14.99**



MFJ



931 Artificial Ground Unit – Eliminates problems caused by inadequate grounding when using Random Length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. This results in easier tuning, improved efficiency, a better radiation pattern and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Three simple controls and RF ammeter tuning indicator. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas ... **\$89.99**



Lightning Protection and Grounding Solutions for Communications Sites

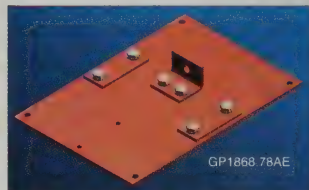
Published by PolyPhaser® in a non-technical manner so anyone can understand how to install an effective grounding and protection system to guard communications equipment against destructive lightning energy **PLY LPGS \$20.00**



GROUNDING ACCESSORIES

GBIS18114AE 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to the ground system. Holds up to five PolyPhaser IS-50-type lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Attach grounding wires from 1/0 stranded to #6 solid **\$27.99**

GEL3AE Pkg. of 5 HD terminal lugs **\$15.99**



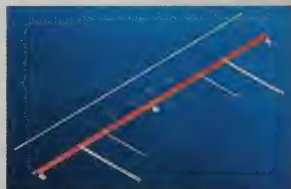
GP1868.78AE

1/8 in. Copper Single Point Ground Panel Kit – Provides Single-Point grounding for two transceiver lines and rotor control cable.



Installs at tower base or on outside wall. Sized to fit inside a NEMA-4X style box for weather proofing. Tapped holes and hardware provided for mounting a PolyPhaser IC-RCT rotor control protector and up to two IS-50 series coaxial protectors. Sandwich plates and hardware included **\$54.99**

GBX976AE NEMA 4X Waterproof Enclosure Accepts GP1868.78AE ground panel **\$89.99**



GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4" strap and lugs for added assemblies **\$64.99**



We accept I.M.P.A.C.® Government Credit Cards

PolyPhaser[®] CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a single, low impedance, ground system within the ham shack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor, etc.).

BROADBAND COAXIAL PROTECTORS

Hermetically-sealed gas tubes and additional components assure surge voltages and currents that are formed differentially on coaxial cable are prevented from being shared by valuable equipment. DC blocked for maximum protection. Low loss; Multi-strike capability with low strike throughput energy; Aluminum enclosure; Wide frequency range, low VSWR; Works on all equipment; Silver-center, TFE, UHF connectors; Silver shell and gold pin Type-N

Flange Mount (left)

IS-50UX-C0

1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector **\$61.99**

IS-50UX-C1

50-700 MHz; VHF 375W, UHF 125W; UHF connector **\$61.99**

IS-50NX-C2 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn **\$61.99**

Bulkhead Mount (right)

IS-B50LU-C0 1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector **\$64.99**

IS-B50LU-C1 50-700 MHz; VHF 375W, UHF 125W; UHF connector **\$64.99**

IS-B50LN-C2 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn **\$64.99**

LOW INDUCTANCE COPPER STRAP

A larger surface area and lower inductance gives strap a huge advantage over wire for RF grounding and lightning protection. Cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5" or 3" widths and 25', 50' or 100' rolls. See Price Guide for details.

GROUNDING PANEL

CU-SPGP A heavy 0.062" copper plate mounted on 1/2" plywood. For mounting protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" w x 12" h, sandwich bars, 16" on-center mount..... **\$69.99**

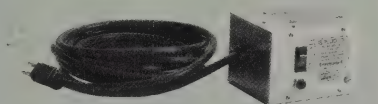


ROTOR CONTROL PROTECTOR

IS-RCT (left) 8-wire protection for rotor box and nearby equipment. Water tight with mounting stud. Shown with optional J-1 clamp **\$54.99**

IN-LINE PHONE LINE PROTECTOR

IS-SPTL (right) Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105V, surges up to 36kA **\$57.99**



POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. 2 grounded outlets, power switch, and circuit breaker. All aluminum grounded enclosure, 4.75" wide.

PLDO-120US15A 15'; 120V/15A **\$159.99**
PLDO-120US20A 6' cord, 120V/20A.. **\$199.99**



270 Lightning Surge Protector

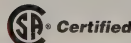
Safeguard your valuable ham gear from damage due to static charges and lightning induced surges. A replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps peak impulse current to an independent ground. Rated to 400W PEP, usable up to 1000 MHz **\$29.99**

MORE SURGE PROTECTION

ALPHA DELTA COMMUNICATIONS, INC.
See the Product Locator on p.2



We accept I.M.P.A.C.® Government Credit Cards



FULL BODY CLIMBING HARNESSES

SkyClimber™ (left) Chest-high front D-ring for fixed climbing. Made of polyester, easy on/off. Two D-ring harnesses offer sliding D-ring at center of back, and chest-high front D-ring. Four D-ring harnesses have sliding D-ring at center of back, chest-high front D-ring, and D-ring on each hip.

FP-5600 Two D-ring, 2.7 lbs., S-M **\$89.99**
FP-5601 Two D-ring, 2.8 lbs., L-XL **89.99**
FP-5602 Four D-ring, 3.0 lbs., S-M **106.99**
FP-5603 Four D-ring, 3.2 lbs., L-XL **106.99**

StarClimber™ (right) Six D-ring tower saddle harnesses with padded seat and shoulder straps, and removable tool belt. Sliding D-ring at center of back, chest-high front D-ring, D-ring on each hip and each end of seat strap, black 1.75" nylon tongue buckle leg strap, red 1.75" polyester shoulder straps, two accessory rings attached to 5" padded backpad and seat-strap, and carry-all bag.

FP-6600 5.0 lbs., extra small **\$260.99**
FP-6601 5.1 lbs., small **236.99**
FP-6602 5.2 lbs., medium **236.99**
FP-6603 5.3 lbs., large **236.99**
FP-6604 5.4 lbs., extra large **236.99**



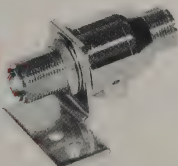
UPS SHIPPABLE

The use of a self-supporting antenna mount makes a neat and attractive installation without guy wires. Easy-Ups are Heavy-Duty and Self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Fast, one-person installation, the legs extend to any rafter spacing. Shipped completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX 3 ft. high, 8.5 lbs. **\$36.99**
EZ 48-5ABX 5 ft. high, 12 lbs. **\$49.99**
EZ 5-16 5 ft. 16ga. steel mast* **\$12.99**
(*Pick-up only)

EZ 29-24S Heavy-duty Double-strap Chimney Mount - Includes two "Y" type mounts and 24' of stainless steel strap **\$22.99**

AES LIGHTNING PROTECTORS



Employs Gas-tube protection to isolate equipment from damaging surges. The Gas-tube holder unscrews providing for simple replacement. Both models are weatherproof, may be bulk head mounted, or flange mounted using the included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5" x 1" dia.

SP-U UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss **\$39.99**

SP-N Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss **\$39.99**

AP Replacement Gas-tube protector..... **\$9.99**

CRANK IT UP!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 72 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	\$1109.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	\$1719.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x6'6"	\$2829.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	\$4379.99

*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are light-weight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	\$1489.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	\$1799.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	\$1959.99

*Will accept the MDP-750 motor drive, factory installed only.

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	\$1399.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	\$1929.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	\$3169.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	\$8269.99

*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. **Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	\$1659.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	\$2899.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	\$5759.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	\$9919.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	\$20849.99

*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.



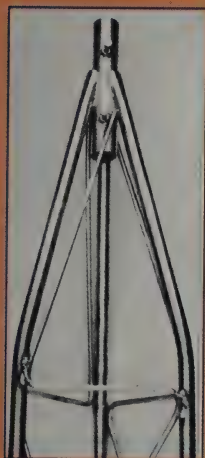
Headquarters
1220 N Marcin St.
Visalia, CA 93291
(559) 733-2438

Second Location
702 E. North St.
Lincoln, KS 67453
(785) 524-8966

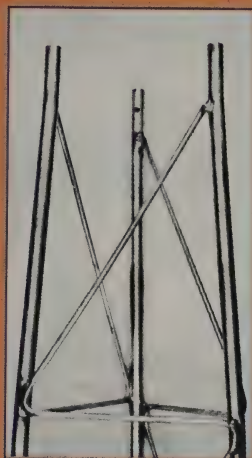
UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



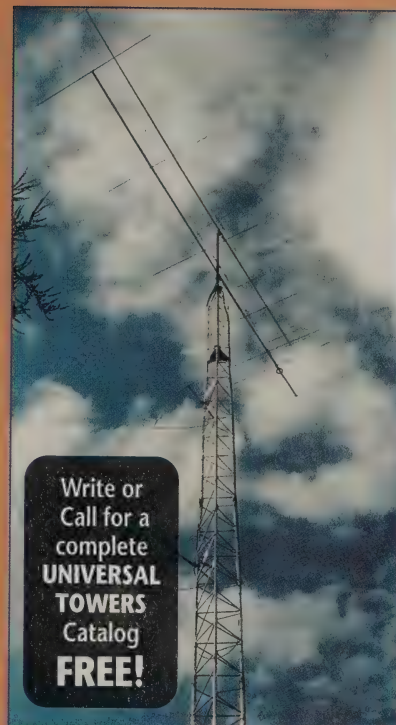
TOP SECTION



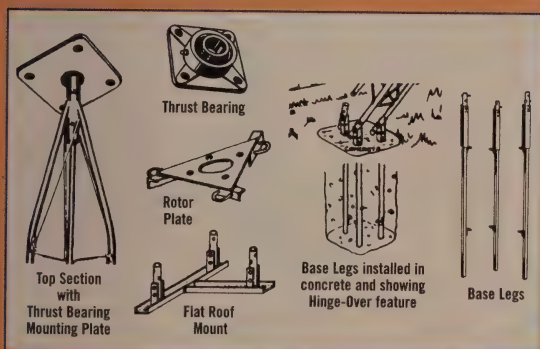
TAPER SECTION



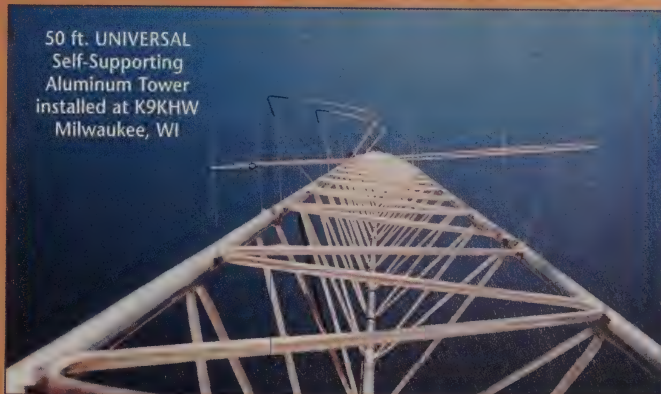
STRAIGHT SECTION



Write or
Call for a
complete
**UNIVERSAL
TOWERS**
Catalog
FREE!



50 ft. UNIVERSAL
Self-Supporting
Aluminum Tower
installed at K9KHW
Milwaukee, WI



SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

CHOOSING THE PROPER TOWER

- (1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas, 5 sq. ft.; 20/40 meter beams, 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays, 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.
- (2) Decide on the tower height that you want. Universal towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.
- (3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

See the Price Guide for Configurations and Prices.

No Guys!

Self-Supporting at the Rated Load

BEFORE BUYING A TOWER
Consider the advantages of -
ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

hy-gain ROTATORS

... the first choice of hams around the world!



The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **\$529.99**

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.

The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **\$619.99**
T-2XD with DCU-1 control **\$979.99**

TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.

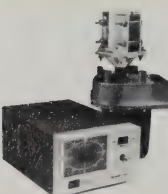


THE HAM-V

Designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in. **\$899.99**

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility. Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" .. **\$1229.99**

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.



The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support..... **\$269.99**

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.



The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 58 ball bearing race gives proven support. Die-cast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support..... **\$369.99**

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1°, and 360° choice for center of rotation. Automatic 8-second brake engagement delay reduces stopping torque stress. Six presets store favorite headings. RS-232 computer control, compatible with many logging and contest programs .. **\$569.99**



Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD **\$99.99**
- MSLD** Lower mast support for CD-45-II, AR-40 **\$39.99**
- TSP-1** Tower spacer plate **\$34.99**



We accept I.M.P.A.C.® Government Credit Cards



ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

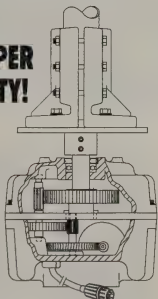
G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875-2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375" h; 13.2 lbs. **\$1139.99**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5" h; 7.7 lbs. **\$519.99**

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna



**M2
SUPER
DUTY!**



OR-2800PCD ROTATOR

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features plus heading preset, 10 programmable presets, programmable ramped start/stop, 1/2-degree target accuracy. Includes RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Proprietary style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display; 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75-3.125 O.D. mast size; 55-270 second rotation speed; 0.1°/0.5° travel resolution; 110/ 220V AC, 50/60Hz input; 28-42V DC motor; Requires 8-wire (two 4-wire runs) rotor cable. Dim: 15.75" h total, 9.75" h rotor; 42 lbs. **\$1399.99**



G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5"dia. x 12.5" h; 7 lbs. **\$259.99**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5-2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25-1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5" h; 20 lbs. **\$629.99**

G-550 Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5-2.5 in. mast size; 67 second 180° elevation; 1.25-1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5" h; 7.3 lbs. **\$299.99**



G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable; 7.5"dia. x 12.5" h; 7.5 lbs. **\$429.99**

G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5" h; 7.5 lbs. **\$339.99**

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GC-048 Mast clamp for G-2800DXA **49.99**
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Low-Band DXing

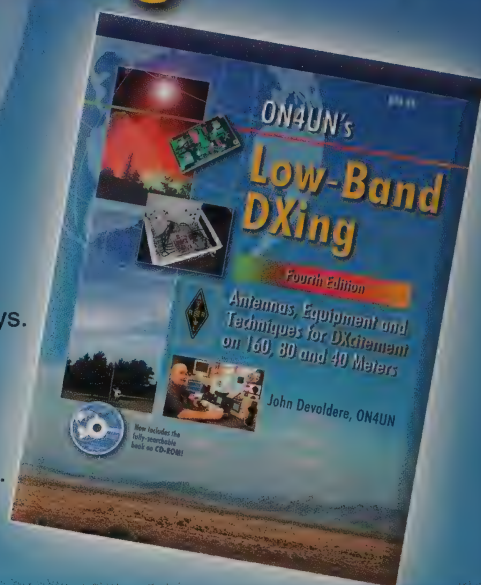
by John Devoldere, ON4UN

**Antennas, Equipment
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DXcitement on 160,
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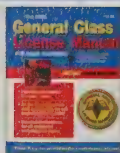
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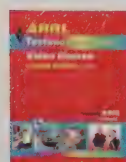


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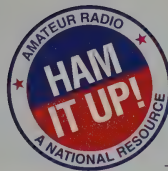
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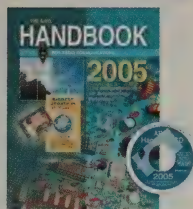


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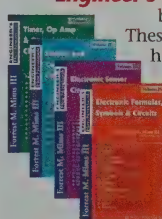
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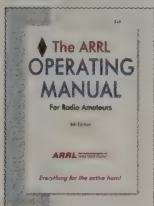


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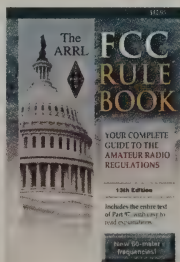
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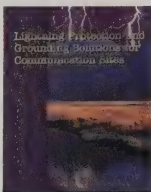
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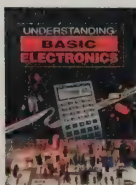
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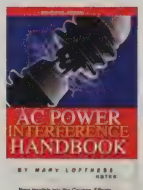
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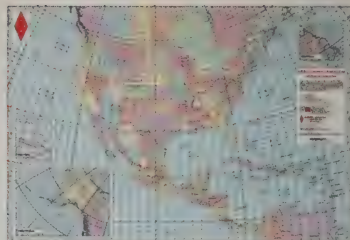


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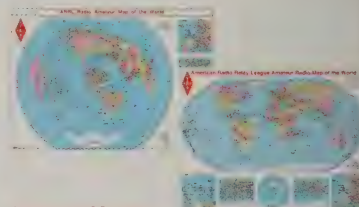
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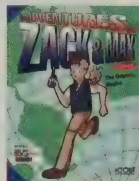
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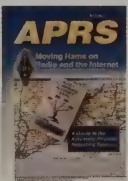
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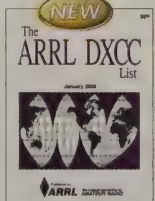
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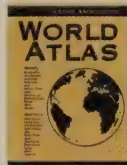


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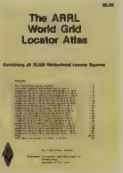
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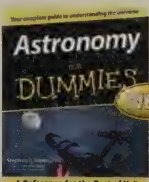
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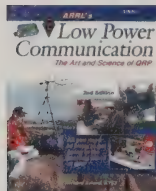


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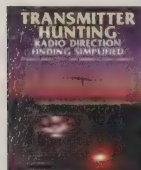
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Perfect travel companion, containing hundreds of open repeater locations throughout the United States, Canada and Mexico. These detailed maps show all highways and major cities in each state. Grid squares on every U.S. map and NOAA weather frequencies for the U.S. **ART REPEATER MAP.....\$14.99**



ARRL's Low Power Communication

The Art and Science of QRP, by K7SZ. The 'low power game is one of ham radio's most exciting and rewarding challenges. Here's the lowdown on low power operating, from selecting gear, to advanced operating techniques, antennas, emergency communications, solar power, and more!..... **ARRL 9175 \$19.95**



Transmitter Hunting

Practical and fun! Using this information, locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting", Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more! **ARR 2701 \$24.95**

Police Call 2005

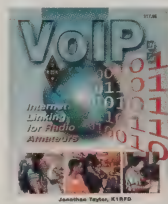
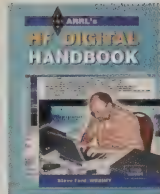
Frequency lists compiled from the most recent records, with unofficial material provided by readers. Vol. 3/4 Covers IL, IN, KY, MI, OH, WI. Vol. 5/8 covers AZ, CO, ID, IA, KS, MN, MO, MT, NE, NV, NM, ND, SD, UT, WY. Compatible with Windows 95-XP. Includes CD-ROM with police call listings.



POL VOL3/42005 or VOL5/82005 each **\$19.99**

HF Digital Handbook

3rd Edition - Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF radio, and more!.... **ARR 9159 \$19.95**



VoIP: Internet Linking for Radio Amateurs

Growing numbers of hams are using Voice Over Internet Protocol in combination with radios for long-distance communication spanning thousands of miles. This is a guide to the 4 primary VoIP systems used by hams: EchoLink,

IRLP, eQSO and WIRES-II. Designed for beginners and those looking to dig deeper **ARR 9264 \$17.95**

2005 World Radio TV Handbook

The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews **WAT 077942 \$29.95**



Celestron Sky Map

Big, durable, 11.25" x 13.75" size, spiralbound, book. Contains basic star map and glow-in-the-dark star finder, seasonal star charts, constellations and characteristics of stars. **CEL 93722 \$19.99**



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Complete text and illustrations for all articles in QST, QEX and NCJ by year. Include search engine, bookmarking, windows printing, software project source code, PC board etching patterns and clipboard support. Info by title, name, call sign, keyword, web. Windows™ 3.1 minimum. Individual CDs by year 1995 to 2004each **\$19.95**

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QST Views

Back issues of QST available in full years on CD-ROM. Every page is stored as a black and white image that can be read or printed. Easy to use software allows you to; Search by title and author; Select by year and issue; Browse individual articles. For Windows™ 3.1 or higher. Five years per CD-ROM.....each **\$39.95**

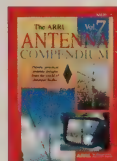
ARR 5781 (1970-74) • 5773 (1975-79) 5765 (1980-84) • 5757 (1985-89) • 5749 (1990-94) 8497 (1995-99) • 9418 (2000-04)



Vintage Radio

Revisit ham radio of yesteryear. A collection of articles published in QST magazine describing vintage equipment and interesting points in the history of Amateur Radio that will evoke a sense of nostalgia. Articles were published between 1977 and 2003, including classic QST advertisements from the

1920s through the 1970s..... **ARR 9183 \$19.95**



Antenna Compendium Volume 7

Inside, find articles covering a wide range of antenna-related topics including, measurements and computations, mobile and multibands, practical tips and propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. 208 pages **ARR 8608 \$24.95**

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More articles on antennas, transmission lines and propagation. More projects **ARR 7431 \$22.95**

Antenna Compendium 5 with software

Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes IBM software for plotting antenna model data files **ARR 5625 \$20.00**



The ARRL Emergency Communication Handbook

Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book encompasses the Amateur Radio Emergency Communications Course (Level 1) manual but adds a substantial amount of additional material..... **ARR 9388 \$19.95**



PkTerm 3.0 and PacTerm 3.0 for Windows CD

Creative Services Software 32 bit terminal software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster, or MFJ-127S/79 interfaces. Built-in logging feature.

CSS PACTERMFORWI for Kantronics TNCs \$99.99
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Antenna Compendium Volume 1

The premiere volume includes articles on a multiband portable, quads and loops, baluns,

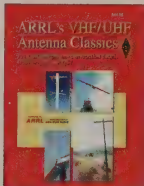
the Smith Chart, and more..... ARR 0194 **\$10**

Antenna Compendium 2

Covers wide range of types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation ARR 2545 **\$14**

VHF/UHF Antenna Classics

Ground planes, J-poles, mobiles, Yagis. Build a better antenna for an HT. Construct a 2M Yagi that rivals similar commercials. Includes projects from the 1980-2003 issues of QSTARR 9078 **\$14.95**

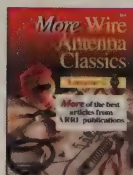


Simple and Fun Ham Antennas

Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects..... ARR 8624 **\$22.95**

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A range of articles from QST and the Antenna Compendium series. Selected tips and techniques from QST's "Hints & Kinks". Includes theory, modeling, VHF, UHF, HF, directional arrays, reduced size, radials and ground, antenna product suppliers ARR 5218 **\$12**

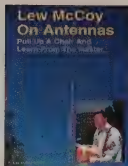


Wire Antenna Classics

Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinear, rhombics, wire beams, vertically polarized and receive antennas are all featured, even a chapter on tree-mounted antennas. ARR 7075 **\$14**

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Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... ARR 7709 **\$14**



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Pull up a chair and learn from the master! Loaded with antenna projects for Tech thru Extra class. CQX LEWMCCOY **\$15.99**

Yagi Antenna Classics

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multibanders; HF, VHF and UHF beams; computer modeling; masts .. ARR 8187 **\$17.95**



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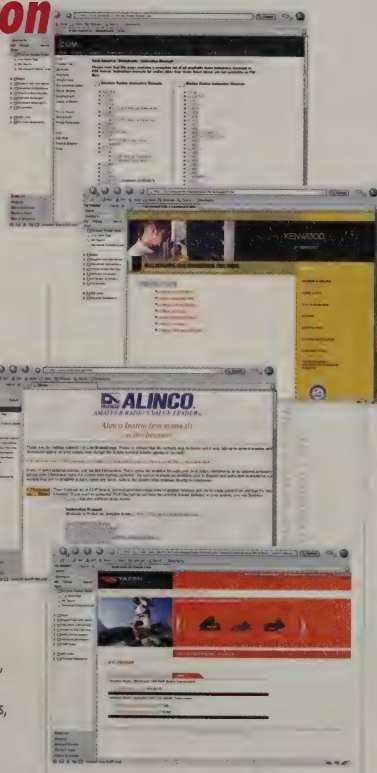
In depth coverage of antennas, feed lines, and propagation. THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Plus CD ARR 9043 **\$39.95**

W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis & verticals. CQX W6SAIHANT **\$19.99**



- ☒ Purchase New Radio
- ☒ Purchase New Antenna
- ☒ Clean Up Ham Shack
- ☒ Erect New Antenna
- ☒ Prepare To Set Up Rig
- ☐ Lose Instruction Manual!!!?



No more hunting through flea markets, calling multiple dealers, or photo copying a neighbor's. Find most instruction and maintenance manuals directly from the manufacturers' websites, including www.yaesu.com, www.icomamerica.com, www.kenwood.net and www.alinco.com.





HEAR IT Noise Eliminating Speaker Incorporates new DSP technology. Fully adaptive to any change in background or man-made noise levels and effectively attenuates it up to -20dB. This dramatic drop in noise level results in clearer and less fatiguing audio that jumps out of the speaker.

The 'Hear it' has the capability to reduce noise equal to, or better than, DSP systems built into several popular radios. If the radio already has DSP, the 'Hear it' will provide an additional benefit. If it doesn't have DSP, the 'Hear it' will make a remarkable improvement in signal readability.

Offers 8 user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plugging headphones or another speaker into the audio bypass jack mutes the speaker, but retains DSP noise reduction. 2.5W of audio power; Requires 12-28VDC @ 500mA; 6.5' lead with 3.5mm mono plug. Dim: 4.5" w x 2.75" h x 2.25" d **\$159.99**



IN LINE MODULE Hear It In-Line Module Same audio enhancing features as the Hear It Speaker above. 20dB average noise attenuation; 8 user-selectable noise attenuation levels; Input sensitivity control knob; 5W RMS audio input power; 2.5 W RMS, 8Ω audio output power; 3.5mm mono and RCA phono audio in/out jacks; Headphone jack; 12-24VDC, 500mA required; 3.5mm to 3.5mm audio and fused power leads supplied. Dim: 6.75" w x 3.325" h x 1.375" d; 1 lb. **\$199.99**



MFJ MFJ ENTERPRISES, INC.

SPEAKERS

281 ClearTone™ Communications Speaker Features a 3" Mylar cone speaker mounted in a well-designed baffle. Improves speech intelligibility in the 600-4000 Hz range while reducing undesirable noise, static & hum. Dim: 3.75" x 3" x 2.25" **\$12.99**

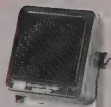
382 Deluxe ClearTone™ 1W Amplified Speaker Excellent for QRPers, base station HTs or rigs requiring more volume. A quality 3" speaker provides powerful audio - barely audible to high. All metal cabinet, rubber feet and vinyl clad cover. Uses 9V battery (not included) or 110V AC with optional adapter. Connecting cable included. Dim: 3.5" h x 1.75" w x 4.5" d **\$39.99**

OTHER ACCESSORIES

890 DX Beacon Monitor Use as an aid to check band conditions worldwide in just three minutes. It requires no connection to a transceiver. The beacon monitor is a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the beacon activation sequence. LED indicators positioned across a world map show which of the 18 beacons is active at any given time. Storing the beacon frequencies in transceiver memory allows quick switching as one listens for beacon transmissions. When a beacon is heard on any of the frequencies, that band is open to the location indicated by the corresponding LED. Requires 12VDC or 110VAC with the optional MFJ-1312D Dim: 6.75" w x 5.25" h x 3" d **\$99.99**



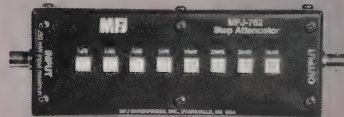
Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6" w x 1.5" h x 5" d **\$99.99**



616 Speech Intelligibility Enhancer™ Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver in-puts; bypass switch. Use with rig or PA sys. Dim: 10" w x 2.5" h x 6" d; requires 12 VDC..... **\$159.99**



624D Deluxe Hybrid Phone Patch Interfaces a phone line with a rig for running phone patches. Jumper selectable for all Kenwood, Icom, Yaesu and Alinco transceivers using an 8-pin microphone connector. Adapts to work with virtually any rig. Uses 12VDC, 9V battery or 110VAC with optional AC adapter. Dim: 8" w x 2" h x 6" d..... **\$119.99**



762 Step Attenuator Provides push-button selection of up to 81dB attenuation in 1dB steps; Excellent performance up to 170 MHz, usable to 500 MHz; 50Ω, 250 mW maximum input; BNC connectors with BNC-to-SO-239 adapters included; All metal cabinet. Dim: 6.5" w x 2.5" h x 1.5" d. **\$69.99**

1263 Microphone Control Center Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Eliminates swapping connectors.

AES

PCL-1 Pro Communications Loud-Speaker

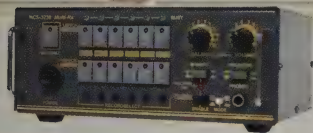
Ideal for amateur radios, scanners, shortwave, PCs, paging, or surround sound.; Uses European-built, 4" throw, 8Ω, 20W-rated contoured driver; Frequency response is 300 - 5000 Hz, ±3dB, optimized for max. speech intelligibility; Full magnetic shielding permits operation next to PCs, monitors or any other sensitive electronic equipment; Rugged, water resistant enclosure allows indoor or outdoor use; Powder-coated, perforated, metal grille protects speaker from damage or abuse; Complete with adjustable, metal mounting bracket for easy fixed or mobile use; Fitted with standard 3.5mm "mini-plug" on a 5.5', strain relieved cord. Dim: 5" w x 4.3" h x 3.2" d; 1.7 lbs..... **Closeout \$19.99**

Order from AES today for immediate delivery on most items.

Typical orders take 3 days or less to deliver.

So why wait? Order Now!

NEW COMMUNICATIONS SOLUTIONS



NCS-3230 Multi-RX Receive Console The ultimate in RX audio control from up to 6 receivers! Connect radios, then choose which to monitor, where the audio will appear in the audio field (two modes), and record any or all audio utilizing manual or VOX activation. External recorder required. LEDs indicate which radio(s) are selected. Built-in stereo amp; Front panel volume and balance controls; "Mute All" button; Use headphones/set or speakers or both; LEDs identify active radios; 12 VDC needed. Dim: 8.5" w x 3.3" h x 6.6" d **\$349.99**

NCS-1514 Wall Power Supply Designed for use with the 3230 above..... **\$24.99**

NCS-P2PH35-A Cable Kit 6 cables, 6' long, for connecting receivers, transceivers or scanners to the 3230. RCA phono connector (to 3230) on one end and 3.5mm phone plug on the other..... **\$42.99**

NCS-MRX2MS-A Cable Interface Kit For interfacing the 3230 to the 3240. Feeds selected audio from the 3230 to speakers or headphones/set connected to the 3240. Selective muting..... **\$49.99**

NCS-3240 The Multi-Switcher

A "mini console" that switches all equipment (mic, headset, keyer, foot-switch, etc) to any of four radios using LED-lighted push buttons. Switch between headset, desk/hand mic, TNC, phone patch, sound card, etc. Matches impedance, audio level and pin-out of nearly any mic to virtually any radio. Switches foot/hand-switch and CW keyer to selected radio. Switches radios receive to external speaker or headphones. Needs 12VDC. Dim: 8.5" w x 3.3" x 6.2" d **\$299.99**
NCS-1512 Wall Power Supply For the 3240. 12 VDC output @ 300mA..... **\$12.99**
NCS-LOZNC Unterminated Cable Requires mic connector installation. Other end is an 8-pin DIN male connector to interface with 3240..... **\$17.99**



NCS-3400

Multi-Patch Passive Audio Panel Organizes audio and other signal distribution in a shack. Makes it easy to add or reconfigure equipment. Consists of 5 rows by 10 columns of 3 types of connectors. Each row has 6 RCA phono jacks, 2 3.5mm phone jacks, and 2 standard phone jacks. 6 modular jacks for telephones and phone accessories. Slide switch disconnects 3.5mm and 6.4mm jacks from the 6 RCA jacks allowing each row segment to operate independently. Dim: 11.75" w x 4.75" h x 2" d (including mounting flanges)..... **\$129.99**



See NCS in the Price Guide for Radio Interface Cables for Icom, Kenwood & Yaesu radios.

WAHL ELECTRONICS ISO-TIP

7740 Cordless Soldering Iron Provides tip performance up to 50 watts and over 700°. Contains premium NiCad rechargeable battery for high-rate charging; a partially discharged unit will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and worklight. Comes with recharging stand, fine and heavy tips..... **\$51.99**



7971 SolderPro 50 Usable as a soldering iron, torch, hot knife and heat tool using optional interchangeable tips; Heats up from 410°F to 750°F within 10 seconds; Runs up to 30 minutes; No electrical current; Easy refill, powered by standard cigarette lighter butane (not included)..... **\$25.99**



7974 SolderPro 70 Usable as a portable soldering iron, torch, hot knife and heat tool using optional interchangeable tips; Heats up from 410°F to 850°F within 10 seconds; Runs up to 120 minutes; No electrical current; Easy refill, powered by standard lighter butane (not included)..... **\$38.99**



82-5000-0004 Rosin Core Solder 60% tin, 40% lead; 0.40" diameter; 374° F melting temperature; Non-corrosive; For all electrical applications; 0.5oz. in handy dispensing tube.... **\$1.99**



ICC NITELOGGER II Automatic Tape Recorder Activator Takes audio output from a radio or scanner and provides an impedance match and voice activated relay operation for a tape recorder. When audio is present, the relay circuit with adjustable drop out delay, automatically activates the recorder for the duration of the signal, then releases. Simple connection with supplied cables to radio's ext. jack, and tape recorder remote and mic inputs. AC adpdr. supplied. Dim: 4.37" w x 3.25" h x 2" d..... **\$69.99**

Weller



SOLDER EQUIPMENT

SP-23LK 25W Soldering Iron Kit (middle right) Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Size: 8-1/4 in. long. 1-3/4 oz., Two-wire 6 ft. cord **\$18.99**

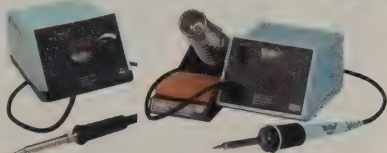
W-60P 60W Pencil-Type Soldering Iron (left) For most circuit work. 0.0625" 700°F screwdriver tip. Dim: 7.5", 2.5 oz., 6' cord, 120V..... **\$66.99**

WP-25 25W Pencil-Type Soldering Iron For work on delicate electronics. 750°F tip temperature. Dim: 7.875" long, 1.75 oz., 4' cord, 120V AC..... **\$35.99**

WSTA3 Pyropen® Butane Soldering Iron (right w/case) Light-weight and completely portable. Operates up to three hours on a charge of regular cigarette lighter butane (not included). Soldering temperature control is adjustable from 392° to 932°F, with a very fast heat-up time. It's ready to solder in just 30-seconds! Supplied with tips for soldering, hot air (1202°F), and brazing..... **\$99.99**

WST2 Pyropen® Jr. (middle left) Portable, mini, butane-powered soldering iron. Recharges in seconds from a cigarette lighter butane (not included). Soldering temperature is adjustable from 392° to 842°F. Also, hot blow feature (806°F) and torch feature (2372°F). Has handy pocket clip..... **\$89.99**

7200PK Multi-purpose Soldering Gun Compact, lightweight, 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest when not in use. Carrying case, extra tip and solder. 120VAC. **\$29.99**



WTCPT 60W Temperature-Controlled Soldering Station (left) Ferro-magnetic sensor in tip controls temperature (700°F), no adjustments. Closed loop method protects components. ESD safe. Power unit, soldering iron and stand with sponge. 3-wire 4' cord. Dim: 4.5" x 5.94" x 3.63"; 3.9 lbs..... **\$119.99**

WESD51 50W Adjustable Soldering Station Quick heat-up, rapid temperature recovery. Micro-processor-controlled, digital LED display shows setting and tip temperature (350-850°F). Auto power off after 90 minutes of inactivity. ESD safe. Power unit, soldering iron with stand and sponge. 3-wire 4' cord. Dim: 5.9" x 4.5" x 3.6"; 3.93 lbs.. **\$149.99**

WEST MOUNTAIN RADIO



RIGrunner

The most convenient and safest way to connect to a 12VDC source and distribute it to all equipment. Base or Mobile – no messy binding posts, frayed wire connections, black tape or short circuits – eliminate those wall warts.

- Anderson PowerPole® crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- Conservatively rated at 40 amps total with any outlet good to 40 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse; blown fuse LED shows status
- Conforms to ARES/RACES, RSGB, ARRL recommendation for high current 12VDC connectors

RR/4010S/C 10 Outlets – One “always on” outlet and (9) auto or manually-controlled switched outlets. An FET On/Off system controls entire station with the power button on your rig. Quick status LED and audio voltage monitor. Includes 12 pair Powerpole® crimp-solder connectors. **\$119.99**

RR/4012/C Intelligent DC Power Panel – Neatly distributes 12V, up to 40A, from power supply or battery to transceivers and accessories. Perfect for home and mobile applications. 12V input connection fused at 40A and 12 pair of outlets supplied with assortment of standard automotive fuses. LED “open” indicators on every fuse. LED voltage monitor indicates normal voltage, LEDs and audio alert for over/undervoltage conditions. 6 ft. DC cable and 12 pair of Anderson Powerpole® crimp-solder connectors. Dim: 11.8”w x 2.7”h x 1”d ... **\$112.99**

RR/4008/C 8 Outlets – Quick status precision LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12 pair crimp solder connectors. Dim: 5.75”w x 2.7”h x 1”d **\$92.99**

RR/4005/C 5 Outlets – DC power panel, for small/mobile installs or as expansion unit. 6 pair crimp solder connectors. Dim: 5.75”w x 2.7”h x 1”d **\$59.99**



PWR/MTR Power Meter with Powerpoles®

Rugged and easy to use, just plug in to any Powerpole® equipped circuit. Simultaneously reads up to 60 Volts DC, up to 100 Amps, Watts, Amp-hours and Watt-hours, automatically with high resolution. Amp-hours and Watt-hours readings are displayed alternately every 3 seconds. Dim: 2.25”h x 4.25”w x .938”d **\$69.99**



PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time. **\$49.99**

C30/PK/12 – 30A PowerPoles® .. 12 pair **\$10.99**



VTTS Multi-Purpose Toolset A quality toolset for the electronic engineer and hobbyist. Includes: 4.75” universal handle, 3” extension, 9 different bits, hex adapter, (4) 1/4” drive sockets, tweezers and plastic carry box Dim: 6” x 4” x 2”..... **\$9.99**
Bits: (Slotted) 1/8, 3/16, 1/4”; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25.
Sockets: 4, 5 and 8mm 1/4” drive.
Precision screwdrivers: 4 slotted, 2 Phillips.
Pliers: 4.5” mini diagonal, 5” mini long nose



VT-SET21N 8-in-1 Screwdriver Set Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque..... **\$4.99**



VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each screwdriver has its own handle and measures 4.2 inches in length **\$7.99**

VT-LAMP2U Magnifier Lamp A 22-Watt, circular daylight fluorescent lamp with 1.75x magnifying glass, 41 inch arm length and convenient table edge mounting clamp **\$49.99**



PG-40 PWRgate

Backup Power System

For the Ham Shack, Repeaters, Emergency Communications Centers, etc. Keeps equipment operational during power failures by instantly switching to a back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in charger circuit keeps the connected battery fully charged and ready for emergency operation. Dim: 1.64”h x 3.9”w x 5”d. Requires PowerPole® connectors (not supplied) **\$69.99**

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Q-VIEW OSL CARD HOLDERS

Proudly display your favorite QSL cards in these 12” x 40” clear plastic hanging holders. Each holds 20 3.5” x 5.5” cards. Open at center to receive cards easily. Pack of three (displays 60 cards)..... **\$18.99**



D-Star System Explore the benefits of wireless High-Speed integrated Digital connections! D-Star is an off-the-shelf, 128K open protocol data system combining analog and digital into a seamless communications network at 1.2 and 10 GHz. The power of the system is limited only by one's imagination. For example, while in a vehicle, visually communicate what is happening simply by e-mailing a photo or live video. Icom is the first to introduce products for this innovative communication system. There are repeater and backbone components, and the ID-1 transceiver can be configured as a mobile or base station. Open protocol TCP/IP structure; Digital voice and data capability; Data 128K (130 kHz bandwidth); ATM multiplex (on the backbone); Multi-site capability with high speed microwave backbone 10Mbps; Internet interface capability; Repeaters handle both digital and analog voice

ID-1 10W 1.2 GHz FM Digital Transceiver with Control Head A vital part of the D-Star system. Don't wait for a new repeater to be set up in your area. This rugged little rig operates with current analog 1.2GHz repeaters, plus simplex digital operation with another ID-1. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation **\$1349.99**

COMMUNICATIONS OUTFITTERS

EXP-1 Expedition Pack Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. Zippered pouch on both sides securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner or other radios. Made of high quality, durable nylon with plastic panels for rigidity. Water-resistant. Dim: 12" w x 4" h x 15" d ... **\$99.99**



Palomar Engineers



VLF CONVERTERS

Receives and converts 10 kHz to 500 kHz (VLF) to tune the 4 MHz range. 2 models tune this low range on either a general coverage receiver or Ham band transceiver. Uses 9V batt. Dim: 2" h x 4.25" w x 5" d.

VLF-A Use with Ham band transceiver **\$99.99**

VLF-S Use with general coverage receiver. **\$99.99**



RT3-4653 Locking GearKeeper™ Two-Way Radio Tether for Handheld - Prevents loss or damage from device being dropped. Easy connect and disconnect. Has a retractable 32 in. tether with 24-ounce return force. Full 360° rotating belt clip **\$29.99**



RT2-4012 Mic Keeper™ - Tired of fumbling with your microphone? Why not grab it, use it, let it go? Retractable 20 in. tether with 12-ounce return force and snap clip, attaches to D-ring or belt loop. The ultimate way to track down your microphone..... **\$19.99**



CARRYING CASES

18 HamGear™ Tactical Chest Harness (left) Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. A 5 x 7 inch cargo pocket holds another radio, maps, etc..... **\$29.99**

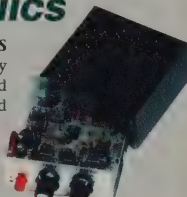
15 HamGear™ Belt Radio Holder (right) Durable twill burlap pocket with elastic cord and velcro closure easily stretches over any HT. Belt slides easily through 2 x 3 inch loop..... **\$14.99**

VECTRONICS

Electronic Kits

Each features a quality epoxy glass PC board with solder mask and screen-printed component key, manual and components.

See Price Guide



UM Unified Microsystems

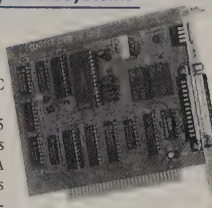
CONTEST CARD

W9XT Contest

Card for IBM™ & PC Compatible

A non-volatile 5 x 4.5 in. card that plugs into a single 8-bit ISA PC slot and provides voice recording, playback and CW keying. Stores a total 60 seconds of voice audio divided into four 15 second messages. Samples at 8 kHz for high quality and natural sound. Does not use any disk space. For CW, the card frees up the PC port, and a relay allows operation with positive or negative keying. Works with all rigs and is compatible with most popular logging programs..... **\$139.99**

CCC-8 Contest Card Cable Semi-kit Wired and tested except for connectors to mic and transmitter. Includes 6 ft. shielded cable, CW keying line and record switch (8-pin) **\$44.99**



PROMPT DELIVERY!

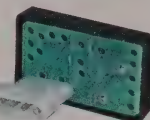


We accept I.M.P.A.C.® Government Credit Cards

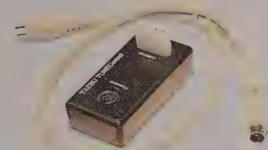
The BetterRF Company



I-MATE Accessory for ICOM PRO Series Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Has alternate audio input for second mic. Plugs into transceiver microphone jack. Receives power from the available voltage **\$74.99**



706 TUNE CONTROL Tune up Control for IC-706/718 Plugs into Molex connector on rear of radio. Converts radio's TUNER/ CALL button function to TUNE MODE which limits radio 8-10W RF output and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No need to switch to AM or RTTY or hold down the PTT switch. Works 160-6M, except not 6M with original IC-706 **\$32.99**



YAE TUNE CONTROL - Tune up Control for Yaesu FT-100, FT-857 and FT-897 - Makes the radio's TUNE button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., no matter what mode you are using. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers..... **\$44.99**

310 HT Antenna Window Mount Clip - When mobile, detach the duck from your HT and install on this handy BNC window mount clip. It holds your antenna securely on the outside of your car's window where it can radiate freely. Quick and easy to install and remove. Comes with 10 ft. of mini-coaxial cable..... **\$14.99**





IBOTZ
INNOVATIVE ROBOT KITS

Age 8 and up. Fun and educational! By assembling the kits, children and young adults learn some fundamentals of robotics and electronics. Assembly requires cutting and long-nose pliers, small hammer and screwdriver, and one 9V and 2 AA batteries.

MR-1001 SoundTracker A lively robot with sound sensor that causes it to react and alter direction of movement. Dim: 5"l x 3.75"h x 5.5"w **\$29.99**

MR-1002 Antoid Has six legs that make him quite maneuverable. Uses infrared light source and sensor to alter direction. Dim: 6"l x 6"h x 7"w..... **\$49.99**

BOUNTY HUNTER METAL DETECTORS



METAL DETECTORS

LAND STAR

Boasts more features than other costly detectors. Includes a Bounty D-Tech™ open-face search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD and touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12" deep... **\$349.99**



FAST TRACKER

Newcomers to treasure hunting should not be shortchanged when it comes to features – or quality. That's why there's the Fast Tracker™. It offers 7" Bounty D-Tech™ search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand **\$99.99**



SHARP SHOOT II

Treasures missed by generations won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable Bounty D-Tech™ search coil. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker **\$299.99**



TRACKER IV

The optimum combination of power, ease-of-use, affordability, and big finds – every time: the Tracker IV™. Built with a fully-submersible 8" Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features 3 different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination **\$129.99**



LAND RANGER

Offers high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8" waterproof, interchangeable search coil and SmartTrac® ground control..... **\$449.99**



QUICK DRAW II

The Bounty Hunter Quick Draw II™ metal detector packs powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, 3 levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10" deep – larger objects up to 5' **\$229.99**



TIME RANGER

Recover more relics and valuables from the past than ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection/acceptance of a particular object is desired **\$549.99**



BOUNTY HUNTER ACCESSORIES

CARRY BAG Padded Carrying Case Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket **\$29.99**

10" COIL 10-inch Magnum Coil Adds extra depth for relic and cache hunting **\$49.99**

COINS, ANTIQUES, RELICS, SILVER, CAR KEYS, JEWELRY, GOLD...

IT'S ALL YOURS FOR THE FINDING!



908 Talking Electronic Chess Computer Go up against this chess pro for a challenging game! Magnetic board and chess pieces – pieces store conveniently in compartment under board; Expert strength – estimated 2000 rating; Speaks to player in english, french and german; Includes special teaching and coaching features; 136 selectable levels from beginner to expert; Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"); Auto shut-off with memory save, selectable opening lines for play and learning, and lots more; Operates on 3 AA batteries. Dim: 12"w x 1"h x 9.98"d; 1.75 lbs **\$49.99**

H-422

Forever Flashlight

The last flashlight you'll ever need to buy! It never needs batteries or bulbs! Just a 30-second shake activates the electro-magnet charging mechanism giving you up to five minutes of continuous bright light. Clear case shows mechanism; Super bright LED; Waterproof – floats in water; Visible for up to one mile; Great for cars, boats, campers and emergency kits. Dim: 10.5" long x 1.5" dia; 12 oz **\$24.99**

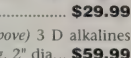
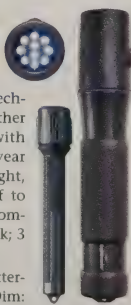
H-423 Micro Forever Flashlight Same features and operations as the H-422, but smaller. Dim: 7.375" long x 1" diameter; 5.6 oz **\$19.99**



Modern flashlights using LED technology. Lights an area like no other flashlight! 25-day batteries (with diminishing brightness); 11-year (typical), solid-state LED's; Bright, diffused white light; Waterproof to 2'; Shock-proof, high impact composite case with lanyard and hook; 3 year warranty, including LEDs

LW-2000 (left) 3 AA alkaline batteries (included) power 4 LEDs. Dim: 7.75" long, 1.25" diameter **\$29.99**

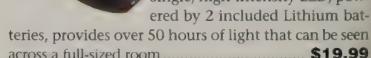
LW-4000 (right and end view above) 3 D alkalines power 10 LEDs. Dim: 10.75" long, 2" dia... **\$59.99**



LW-3000 Like LW4000, but smaller. 3 C alkalines power 7 LEDs Dim: 8.75" long, 1.625" dia . **\$49.99**

LW-HT Illuminator™ Head Torch 1"-wide adjustable strapping secures light to the head. Up/down adjustable. 4 high-intensity LEDs powered by 3 AA batteries (not included) provide super-bright light visible for over one mile, over 330 hours **\$39.99**

LW-PB PocketBright™ Flashlight Includes key ring, neck lanyard and velcro patches. Single, high-intensity LED, powered by 2 included Lithium batteries, provides over 50 hours of light that can be seen across a full-sized room **\$19.99**





FTV-1000 200W 50 MHz Transverter for the FT-1000MP MK V Utilizes the same high-performance power MOS FET transistors as the MK V. PA stage operates at 30VDC, provided by the MK V power supply. Output devices, capable of 300W PEP, are run well below their maximum ratings for high reliability. The thermostatically-controlled cross-flow cooling fan keeps operation cool. Exclusive Class-A bias capability is now extended to the FTV-1000 50 MHz operation providing the cleanest SSB signal on the band! It also features a high dynamic range receiver front end, utilizing a high-intercept design with JFETs in a double balanced mixer. Driving the mixer is a low-noise-figure MOS FET preamp, two gain selections available. For local, select IPO, bypassing preamp for direct feed to the mixer. 12dB attenuator available when working with extremely strong local signals. Rocker switches control all functions, with LED indicators..... **\$949.99**



HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet, greatly expanding the coverage area. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD (including manual), power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card in/out cables and WIRES™II user/server agreement..... **\$149.99**

More WIRES™II wide-coverage internet repeater enhancement system information can be found at www.vxstd.com/en/wiresinfo/en/



VXR-7000VA 50W 2M FM Desktop Repeater A long list of built in features, sets the standard for mid-power, continuous duty base station and repeater applications. Whether used as a base station, with its attractive housing and user-friendly controls, or as remote repeater in the most demanding environments, the VXR-7000VA will provide years of reliable service. 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, automatic DC supply back-up. Dim: 4.5" h x 12.8" w x 15.4" d; 22 lbs **\$1269.99**

* Dealer programmed feature



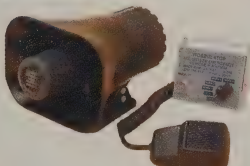
SIRENS & HORNS

VS-2 Emergency Vehicle Siren Designed for the volunteer fireman, a quality-built wail-yelp alarm that delivers big sound performance (120dBA sound level at 4 ft.). Frequency range is 600 to 1200Hz. It is pre-wired with a 3-position switch (Yelp-Off-Wail). High efficiency waterproof horn speaker. Also includes 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs. **\$89.99**



VS-2LS Siren-Light Combo

A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light..... ea. **\$299.99**



VS-3 Vehicle P/A and Airhorn w/Rebroadcast A big, powerful airhorn sound with 4 different sounds (no siren) calls attention to your vehicle. Delivers 120dBA level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig, scanner, etc. via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **\$129.99**

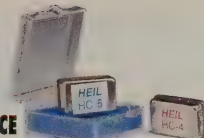
VS-4 P/A Emergency Vehicle Siren Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A override features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12V DC @ 1.5A.... **\$139.99**

Sticky Pad®

No more slipping or sliding! The Sticky Pad holds objects in place on your vehicle dash. There are no adhesives to get messy or magnets to ruin electronic equipment. The back of the pad allows it to stay anywhere you place it while also being movable. The durable Sticky Pad is washable and reusable.

STI 13810 Dim: 7.25 in. x 4.13 in. **\$5.99**

STI 13820 Dim: 8.75 in. x 6.875 in. ... **\$9.99**



HIGH PERFORMANCE MICROPHONE ELEMENTS

For a Big Boost in audio performance, replace the cartridge in your factory microphone with a Heil Element; the same elements used in their High-Performance microphones. Tiny in size, they easily replace existing cartridges in most microphones.

HC-5 Full Range Articulation Element Make your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a factory microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz & above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of on-the-air compliments **\$38.99**

HC-4 The "DX Dream Machine" Element Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz & sharp 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday rag chewing **\$38.99**



HSC-99 HamHub™ Station Controller - An integrated interface to connect and control mic, headset, footswitch, TNC, rotor, transceiver and computer. Provides isolation of critical audio circuits and opto-isolation of RS-232 and control in/outputs. Both sound card and TNC in/outputs are transformer isolated to eliminate ground-loops. Uses single USB connection (computer) and provides 3 opto-isolated RS-232 serial COM ports for TNC, rotor and rig control (serial output configurable to match some older TTL rigs). Full-time audio multi-level indicators on both in/output circuits match audio levels between equipment. Internal high-speed micro-controller implements and supervises functions making them transparent to the user. Soft/hardware controls interlock - choose which overrides the other; Operates with most soundcard and software control programs **\$349.99**



8708 Micro ATV

Transmitter - Transmits a high quality amateur television audio and video signal on TV cable channels 58, 59 and 60 and test channel 60. Plug in an antenna and a video source and using a TV set or down converter, tuned to the appropriate channel, you'll have a complete low power ATV video station. Outputs a 50-100mW signal, capable of transmitting up to 1.8 miles with a 3-el. beam. By using a suitable UHF amplifier, you can enjoy ATV communications with other ATV hams. Uses 9V battery. **\$149.99**

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.



AMPHENOL

83-1SP-1050 (PL-259) Male coax plug



VAN GORDEN

SILVER PLATED (PL-259) Teflon



AMPHENOL PL-259 REDUCING ADAPTERS

83-185-RFX For RG-58

83-168-RFX For RG-59/8X



AMPHENOL

83-1R (SO-239) UHF panel receptacle



SHAKESPEARE

PL-259CPG (PL-259) No strip, Solderless male coax plug for RG-8X & RG-58/AU



SHAKESPEARE

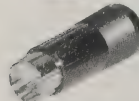
PL-258CPG No strip, solderless splice for RG-8X & RG-58/AU

MICROPHONE & DIN CONNECTORS



VANGO

CBC-8P Panel mount 8-pin male



KENWOOD

7-PIN DIN plug



8-PIN DIN plug



13-PIN DIN plug



PHILMORE

61-6088 8-pin female mic plug



VANGO

CBC-4 4-pin female mic plug



CBC-5 5-pin female mic plug



CBC-6 6-pin female mic plug



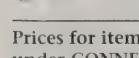
HOUSE OF DEALS

AP-115 1/4" metal stereo plug



HOUSE OF DEALS

AP-135 3.5mm stereo mini phone



DALBANI

15-0293 3.5mm mono plug

TYPE N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.



AMPHENOL

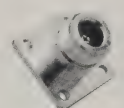
82-202-1006 Male for 8214/9913/9913F

34025 Male for RG-58



VAN GORDEN

N CONNECTOR Male EZ-install type for 9913/8214



AMPHENOL

82-24 Type-N panel receptacle

AIM

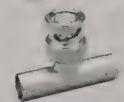
26-8011 Type-N chassis mount

COAXIAL ADAPTERS



AMPHENOL

83-1T UHF T-connector adapter (M-358)



AIM

27-8140 BNC T (2 fem., 1 male)



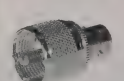
AMPHENOL

83-877 UHF double male adapter



AMPHENOL

4400 SO-239 to Type-N male



AMPHENOL

31-28 BNC female to PL-259



AIM

27-8120 BNC female to PL-259



HOUSE OF DEALS

SMA-872 SO-239 to SMA adapter



AIM

27-8130 BNC double male



AMPHENOL

2900 SO-239 to BNC male adapter

AIM

25-7420 BNC male to SO-239

26-8017 BNC male to N female

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.



AMPHENOL

31-002 Male for RG-58

31-012 Male for RG-59/8X



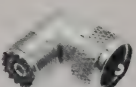
AIM

27-8470 Dual chassis mount



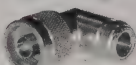
AMPHENOL

31-221 Female chassis socket



AMPHENOL

83-1AP UHF right angle (UG-146)



AMPHENOL

82-64 Type-N right angle adapter



AIM

26-8016 BNC female to N male



AIM

25-7365 BNC female to SO-239



AIM

29-4140 SO-239 to mini PL-259



AIM

26-8014 N female to UHF male



AMPHENOL

83-1J UHF double female (PL-258)



AIM

CPAD-207 Chassis mt SO-239 double female



AIM

26-8010 Type-N double female



AIM

29-3855 BNC female to SMA male

Prices for items on this page can be found under CONNECTORS in the Price Guide.

READY-TO-FLY ELECTRIC AIRPLANES

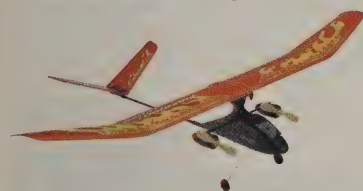
Everything needed to get flying – plane, transmitter, receiver, rechargeable NiCad battery, battery charger and instructional CD – in one package. Almost all models include the following features.

SmartTrak™ Technology Revolutionary flight control system. An on-board time-based computer adjusts control throws based on selected modes, conditions and throttle positions, improving flight handling and performance.

Standard Mode Designed for first time pilots, it gives positive response while preventing the common problem of crashes caused by over-controlling and spiraling.

Expert Mode Allows increased control throw and response, allowing for a more advanced maneuvers like spirals, wingovers, swooping dives and climbs.

X-Port For exciting optional plug-ins like the Sonic Combat module and Aerial Drop module.

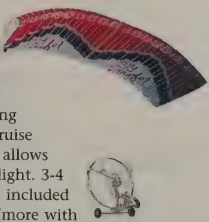


4500 Firebird Outlaw (Red Wing) Same technology found on much more complex radio control planes. Its FM transmitter provides 1,500-foot signal range and the controls are fully proportional for a smooth precise feel. Also boasts a 10-minute flight time. Beginners only have to master throttle and steering. Equipped with a twin-engine propulsion system, it climbs and descends when power is increased or decreased. Differential thrust controls direction. Sophisticated circuitry precisely controls the differential thrust so beginners don't over control and crash. Super 130 (2) engine; Proportional 2-channel FM radio with digital flight-trak (6 frequencies on 27 MHz); Includes 6V, 300mAh NiMH battery, 2.5-hour wall charger and instructional video; 27.25" wing span, 21.375"l; 6.5 oz.. **\$49.99**

4505 Firebird Outlaw (Green Wing) Same as 4500 but with green wings. **\$49.99**

7800 Sky Surfer

Zippy climb performance and handling! Motor gear drive and composite propeller allow for rolling takeoffs. 7-10 mph cruise speeds, excess power allows half throttle for level flight. 3-4 minute fly time with included 7.2V 600mAh battery (more with optional battery). Sophisticated steering system allows positive and precise control during all maneuvers. Includes 2-channel, 27 MHz, AM proportional TX; snap-together gondola; 50" x 18" parafoil with preattached shroud lines; running hardware and 30-min. DC charger. Transmitter requires 6 AA's; 19 oz. **\$249.99**



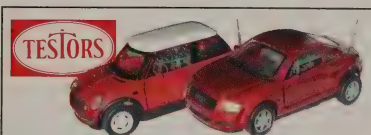
2500 Firebird Commander Using standard mode makes learning to fly easy. Once the basics are learned, it easily converts via onboard programmable computer to expert mode, for maneuvers like wingovers, dives and pylon turns; 380 motor for faster climbs and higher speeds; SmartTrak™ control system; Two-stick proportional controller with 2,500' range (8 AA's included); X-Port; 18 minute average flight time; 6-cell, 7.2V, 900mAh NiMH with AC wall charger with timer and LED; 31"l, 40.25" wing span; 17 oz. **\$109.99**



3500 Aerobird Challenger Ready-to-fly experience like no other for experienced pilots. Its powerful 380 motor, control system and effective control surfaces fly circles around most ready-to-fly models. Perform loops, turns, stall turns, whip stalls, etc. Sport mode keeps control responses manageable. Master the basics, then unlock Pro mode for maximum maneuverability. FightTrak™ (pitch function); Fully-proportional 3-channel single-stick controller with side throttle and 2,500' range (8 AA's included); X-Port; 6-cell, 7.2V, 900mAh NiMH with peak detection charger; 15 min. average flight time; 31"l, 42" wing span; 17 oz. **\$149.99**



5500 Firebird IIST Easy flight using just two sticks, left for throttle and right for steering, be flying solo out of the box. SmartTrak™ control software analyzes and adjusts inputs to keep first-time flyers from over-controlling. After using standard mode, unlock expert mode and enjoy extreme maneuverability, great for pylons or performing spiral dives; 18-minute flying time with 2,500' range; 4-cell 4.8V 600mAh NiMH battery with 2.5 hour AC wall charger. Dim: 23"l, 31.5" wing span; 8 oz.. **\$84.99**



Metal Body R/C Model Kits – Fun to build and race. Just assemble the pre-painted models with a screwdriver, add 2 AA batteries for the cars and one 9 Volt battery for the pistol grip transmitter/controllers and you're ready to go. The 1/32 size makes racing in the living room easy and their die-cast bodies are tough.

800001 1/32 Mini Cooper (left) 4.375"l x 2" w x 1.75" h; 8 oz. **\$29.99**

800002 1/32 Audi TT Coupe (right) 4.875"l x 2" w x 1.5" h; 6.4 oz. **\$29.99**



RC ELECTRIC BOAT

3305 Zig Zag Racer Remote Control Electric Boat Super fast, highly maneuverable, the ultimate in pool-sized fun. Comes completely assembled and ready for action. Put 8 AA's in the transmitter, apply colorful stickers to the body, and you're ready to go. Includes a 2-stick, 2-channel, 27 MHz transmitter; fully proportional electronic speed control; reliable electric motor; 8 AA's and 900mA rechargeable battery; wall charger; 3 anchoring buoys and bolt-on bumper for retrieving buoys and playing water soccer. Dim: 15"l x 5.75"w; 16 oz. **Closeout \$69.99**

RC PLANE/BOAT ACCESSORIES

4020 Sonic Combat Module Option for Firebird Commander and Aerobird Challenger. Clips on bottom of craft and connects to receiver circuitry. When pulling back on throttle, it fires a focused, high-frequency sound blast (effective to 50'), temporarily disabling a motor for 10 seconds while allowing full steering. Also serves as detector for "hits" from other aircraft. **\$23.99**

6023 Air Drop Module Option for Fighterbird, Firebird Commander and Aerobird Challenger. Allows for dropping of streamer bomb or parachute. Includes 2 streamer bombs and one parachute. **\$19.99**



4025 StealthTarget The perfect accessory to go with any SCM-equipped HobbyZone airplane. Hone your combat techniques without an opponent. Does not fly but mounts stationary on a 24" support pushed into the ground in an open area. Emits a tone when it detects a sonic "hit". Dim: 13"l x 8"w; 4.8 oz. Includes 9V battery. **\$19.99**

1011 Speed Battery for Firebird II. **\$17.99**

1012 Replacement 7.2v 900mAh NiMH battery for Fighterbird, Zig Zag Racer and Aerobird. **\$24.99**

1013 High performance, 8.4V 900mAh NiMH battery for Aerobird and Fighterbird. **\$29.99**

7809 High-performance 7.2V 1100mAh battery pack for Sky Surfer. Doubles flight time to approximately 8 minutes. **\$29.99**

1026 DC Peak Charger For all batteries. Features peak detection circuitry and adjustable current so charge rate can be customized. A red LED indicator shows charge cycle status. Unit plugs into any automobile outlet – perfect for use in the field. It will also work as a replacement for 1022. **\$19.99**

2015 7.2V 3-hour wall charger **\$8.99**

**Your Inquiries are
INVITED!**



RADIO-CONTROLLED ELECTRIC MODELS

2410 "Bandit" Electric Sports Buggy Ready-to-run with ProGraphix body, TQ radio system and pistol-grip rotary mechanical controller. No delicate parts or tricky adjustments to worry about. Go ahead, put yourself behind the wheel and experience the speed and thrill of an Extreme Sports Buggy.; Powerful, Stinger, 20-turn, modified motor; Tough 272-Magnum™ variable ratio transmission with slipper clutch, planetary-gear differential and ball bearings throughout; Adjustable, easy-to-change gear ratios; Fiber-composite chassis; High-volume, oil-filled UltraShocks™; Fully independent, long travel, suspension; Telescoping, U-joint driveshafts; Fiber-composite suspension arms; Bell crank steering virtually eliminates bump steer; Requires 8 AA alkalines, 7.2V NiCad rechargeable battery pack and charger (not included); Dim: 16.25" x 7" h; 48 oz **\$129.99**



3606 "Stampede" Electric Monster Truck The chassis is pure monster, with its reinforced channel design, fiber-composite materials, and unsurpassed ground clearance. The suspension is pure race, with track-tuned geometry and the fully-adjustable oil-filled shocks of a competition-level race truck. Fully assembled, ready-to-run. Includes TQ™ radio system and forward/reverse XL-1 electronic speed control. High-torque, Stinger, 20-turn, motor; Tough, 272 Magnum™ variable ratio transmission with slipper clutch, planetary-gear differential and ball bearings throughout; Adjustable, easy-to-change gear ratios; Fiber-composite chassis and suspension arms; High-volume, oil-filled UltraShocks™; Fully independent, long travel suspension; Telescoping, U-joint driveshafts; ProGraphix™ body, chrome wheels; 23+ mph top speed; Requires 8 AA alkalines, a 7.2V NiCad battery pack and charger (not included). Dim: 16.25" L x 9.5" h; 68.2 oz **\$174.99**

ROBINSON RACING PRODUCTS

1422 Absolute pinion 22T. 48p hardened gear for RC-2141. Needed for Losi XXX-4 kit..... **\$4.99**



3710 "Rustler" Electric 1/10-Scale 2WD Stadium Race Truck Delivers pro-level racing technology and performance in a reliable, easy to maintain package. Designed for performance and durability, expect hours of low-cost, fast, radio-controlled fun. Fully assembled, ready-to-run, with TQ™ radio system with rotary mechanical speed control, ProGraphix™ painted body and chrome wheels. High-torque, Stinger™, 20-turn, modified motor; Tough 272 Magnum™ transmission with slipper clutch, planetary-gear differential, ball bearings; Adjustable, easy-to-change gear ratios; Fiber-composite chassis and suspension arms; Low-maintenance, High-volume, oil-filled UltraShocks™; Fully independent, long travel suspension; Telescoping, U-joint driveshafts; Bell crank steering virtually eliminates bump steer; Requires 8 AA alkalines, a 7.2V NiCad rechargeable battery pack and charger (not included). Dim: 17.5" L x 7" h, 54.8 oz **\$134.99**

3706 "Rustler" Same as 3710 above, but includes the powerful XL-1 electronic speed control with full, digital proportional forward/reverse throttle control **\$154.99**



3906 "E-Maxx" Dual-Motor, 4WD Electric Monster Truck For gut-wrenching, wheelie-popping monster torque, nothing comes close. Twin Titan™ 550, fan-cooled motors, trick ESC power system, and shift-on-the-fly 2-speed transmission. Ready-to-run with a 3-channel TQ-3 radio system and a painted ProGraphix™ body. Features a new, extra tough, molded composite semi-tub chassis with battery cutouts that lower the C.G. Accepts both stick packs and side-by-side race packs. Adjustable slipper clutch system; 4-wheel, independent suspension with 4" of ground clearance and over 3.5" of plush, oil-damped suspension travel with 8 oil-filled shocks; Microprocessor based 16.8V EVX electronic speed control affords precise control over forward and reverse speed; 30+ mph top speed; Requires 8 AA alkaline and (2) 7.2V NiCad batteries with charger (not included). Dim: 19.125" L x 10.5" h; 155.2 oz **\$334.99**

More information on Traxxas products available at www.traxxas.com



RADIO-CONTROLLED ELECTRIC MODELS

A0090 "XXX-T" 2WD, Sport, 1/10 Scale, Ready-to-Run Electric Truck Features ball bearings throughout, a powerful open endbell 19-turn motor (with replaceable brushes), and is topped off with an attractive painted body with hot graphics. Industry leading JR computer-based multi model radio system with new hi-torque servos and a GM electronic speed control that offer quality and features not found on any similar model. V3R electronic speed control with reverse; Exclusive XXX-T suspension package with hard-anodized oil filled shocks; Rigid molded chassis with dropped center; Molded suspension components feature interlocking construction; Universal driveshafts delivering crisp acceleration and improved traction; Adjustable slipper clutch; Racing transmission with HD adjustable ball differential; Racing tires pregelued on one-piece wheels **\$269.99**



A0014 "XXX-4" 4WD, Competition, 1/10-Scale Electric Buggy Kit A no-compromise 4-WD racer. Designed to give the remarkable performance of a 4WD, while being as easy to maintain as a 2WD. Phenomenal performance from a sealed, single-belt drive that reduces friction for outstanding acceleration. Interlocking construction for ease of building and adjustment (all but eliminates chassis tweak due to impacts); Ingenious slipper clutch absorbs drive train shock while maintaining crisp acceleration and improved handling; Sealed ball bearings throughout for reduced friction, higher speeds and longer run times; Attractive aerodynamic body/wing; Hard-coated shock absorbers; Easy access differentials; Requires motor, pinion gear, radio speed control and battery **Closeout \$239.99**

TRINITY



RC-2141 Monster Horsepower Pro Stock Motor This version of the Monster Horsepower stock motor has been tweaked for the ultimate in performance. The commutator is trued, magnets zapped, new brushes and springs and dyno tested. RPM: 21,227 @ 5V; Power: 64W @ 10.1k; Efficiency: 49.0% @ 14.6k; 99.7 Nmm torque; Meets all ROAR and NORRCA specs **\$39.99**

COD ORDERS Minimum COD order is \$20.00, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$7.50 COD fee per package applies. Payment by money order or certified check only.

DAMAGED ITEMS If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY.** The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at our discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. Canadians please see "**Canadians Note:**" under TRADE-INS.

INTERNET ORDERS The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web, but has an e-mail account, the customer may e-mail his/her order making sure the following information is included: full name, call sign (not required to order), phone number, billing address, shipping address, item(s) to be purchased (model number and manufacturer) and method of payment. If paying by credit card, we need the card number and expiration date.

PAYMENT Accepted forms of payment are electronic bank transfer, certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AMATEUR ELECTRONIC SUPPLY®** is not responsible for typographical errors or omissions.

REFUNDS Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS In order to maintain the lowest possible prices, we do not offer a free trial or evaluation period on new equipment. If permitted, an **Authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "**Canadians Note:**" under TRADE-INS.

PACKING FOR SERVICE AND/OR RETURN When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3" of foam or crumpled paper should be used instead of polystyrene edge protectors.

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING Shipping charges, which include adequate insurance, are

based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES® via Ground Service, only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV. To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

FLAT RATE SHIPPING via Ground in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to \$100.00	\$4.99
\$100.01 to \$500.00	\$9.99
\$500.01 to \$1,499.99	\$14.99
\$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments

Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

TRADE-INS Amateur Electronic Supply® accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments will not be accepted.

AES® assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS AES® accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies. We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® charge cards. Net terms available to Government agencies, schools, and companies highly rated in Dunn & Bradstreet.

For more information, please contact Paul Szczerbinski, W9KHO (pauls@aesham.com) at AES® Milwaukee. Toll Free: 1-800-558-0411, Local: 414-358-0333 or Fax: 414-358-3337

AMATEUR ELECTRONIC SUPPLY® 5710 W. Good Hope Road • Milwaukee, WI 53223Local: (414) 358-0333 • Toll Free: 1-800-558-0411 • 24-hour FAX: (414) 358-3337 • On-line: www.aesham.com • E-Mail: info@aesham.com

Salesperson's Name _____	SHIP TO (If other than at left): _____ _____ _____ _____ _____ IF YOU HAVE MOVED since your last order, please show your old address: _____ _____ _____
Account No. _____ Date _____	
Name _____ Call _____	
Address _____	
City/State _____ Zip _____	
E-Mail Address: _____ Fax: _____	
Phone No. (Home) () _____ Hours: _____	
Phone No. (Work) () _____ Hours: _____	

QTY.	MANUFACTURER	PART OR MODEL # • DESCRIPTION	PRICE EACH	TOTAL













TOTAL AMOUNT OF ORDER	\$
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LINE 1 — TRADE-IN Allowance (if any) <i>Enclose mail quotation or reference telephone quote & list Trade-in items on line provided below.</i>	
IMPORTANT! Persons having a Trade-in must check one of the following: (Also, see more important information on previous page and on Policies page.) <input type="checkbox"/> Hold this order until you receive and approve my trade-in. <input type="checkbox"/> Payment in-full enclosed. Refund allowance when my trade-in is received and approved. <input type="checkbox"/> Charge the FULL AMOUNT of my order to my Charge Card and Credit my trade-in allowance when my trade-in is received and approved.	-

LINE 2 — Shipping Charges We ship via best ground method at flat-rate shown on next page, except to APO/FPO made via Priority Mail. <i>For Faster Service select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)</i> <input type="checkbox"/> UPS Next Day Air (Red) <input type="checkbox"/> 2nd Day Air (Blue) <input type="checkbox"/> 3-Day Select (Orange) <input type="checkbox"/> Fed Ex <input type="checkbox"/> Fed Ex Home <input type="checkbox"/> Express Mail <input type="checkbox"/> Priority Mail	+ <small>Shipping Charges are taxable in WI, FL, NV & OH</small>
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LINE 3 — Sales Tax: <input type="checkbox"/> WI-5.6%, <input type="checkbox"/> FL-6.5%, <input type="checkbox"/> NV-7.5%, <input type="checkbox"/> OH-6.75% <i>For Ohio & Nevada figure tax before subtracting trade-in allowance</i>	+
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LINE 4 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any)	-
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<table><tr><td colspan="2">CREDIT CARD INFORMATION</td></tr><tr><td>We accept I.M.P.A.C.® Government Credit Cards</td><td>   </td></tr><tr><td>Account Number</td><td></td></tr><tr><td>Cardholder's Name</td><td>CARD EXPIRES</td></tr><tr><td>Cardholder's Signature</td><td>Date</td></tr></table>	CREDIT CARD INFORMATION		We accept I.M.P.A.C.® Government Credit Cards	   	Account Number		Cardholder's Name	CARD EXPIRES	Cardholder's Signature	Date	<table><tr><td>LINE 5 — Balance</td><td>\$</td></tr><tr><td>LINE 6 — Due AES from previous order (if any)</td><td>+</td></tr><tr><td colspan="2">TOTAL AMOUNT DUE</td></tr><tr><td colspan="2">Choose payment method from below: (Fill in information at right, if applicable) <input type="checkbox"/> Bank transfer <input type="checkbox"/> Certified check <input type="checkbox"/> Personal check <input type="checkbox"/> Money order DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank. <input type="checkbox"/> Credit card (VISA, MasterCard, Discover, American Express, IMPAC) <input type="checkbox"/> COD \$7.50 fee per package. Money Order or Certified Check Only. <small>MINIMUM \$20.00 COD ORDER — NO AIR OR PARCEL POST COD'S</small></td></tr><tr><td colspan="2">AMOUNT ENCLOSED</td></tr><tr><td colspan="2">BALANCE DUE (IF ANY)</td></tr></table>	LINE 5 — Balance	\$	LINE 6 — Due AES from previous order (if any)	+	TOTAL AMOUNT DUE		Choose payment method from below: (Fill in information at right, if applicable) <input type="checkbox"/> Bank transfer <input type="checkbox"/> Certified check <input type="checkbox"/> Personal check <input type="checkbox"/> Money order DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank. <input type="checkbox"/> Credit card (VISA, MasterCard, Discover, American Express, IMPAC) <input type="checkbox"/> COD \$7.50 fee per package. Money Order or Certified Check Only. <small>MINIMUM \$20.00 COD ORDER — NO AIR OR PARCEL POST COD'S</small>		AMOUNT ENCLOSED		BALANCE DUE (IF ANY)	
CREDIT CARD INFORMATION																							
We accept I.M.P.A.C.® Government Credit Cards	   																						
Account Number																							
Cardholder's Name	CARD EXPIRES																						
Cardholder's Signature	Date																						
LINE 5 — Balance	\$																						
LINE 6 — Due AES from previous order (if any)	+																						
TOTAL AMOUNT DUE																							
Choose payment method from below: (Fill in information at right, if applicable) <input type="checkbox"/> Bank transfer <input type="checkbox"/> Certified check <input type="checkbox"/> Personal check <input type="checkbox"/> Money order DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank. <input type="checkbox"/> Credit card (VISA, MasterCard, Discover, American Express, IMPAC) <input type="checkbox"/> COD \$7.50 fee per package. Money Order or Certified Check Only. <small>MINIMUM \$20.00 COD ORDER — NO AIR OR PARCEL POST COD'S</small>																							
AMOUNT ENCLOSED																							
BALANCE DUE (IF ANY)																							

BANK TRANSFER INFORMATION

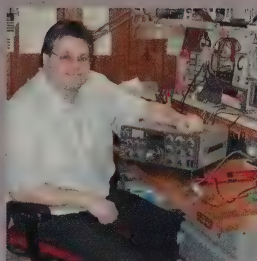
M&I Marshall & Ilsley Bank, Milwaukee, WI. ABA #075000051. Credit to account #00244-15017 in the name of Amateur Electronic Supply. Make sure to include the name under which the order was submitted.

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a New radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.



MILES, K9HMQ (Service Mgr.)
(Milwaukee Store)



STEVE, N9SO
(Milwaukee Store)



ED, KB8YSX
(Ohio Store)

Warranty Service

Please refer to manufacturers warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty, will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service", and always adequately insure your items.

Labor Rates

- \$60 per hour for Out-Of-Warranty Service
- \$80 minimum on HF/VHF Base Stations
- \$60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

Shipping Information

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER

SHIPPING CHARGES

Up to \$100.00	\$4.99
\$100.01 to \$500.00	\$9.99
\$500.01 to \$1,499.99	\$14.99
\$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments

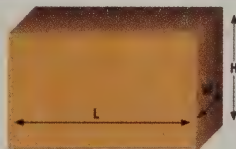
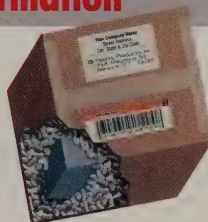
Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/EPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, FL & NV.

Please see **Policies Page** for complete information.



$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your FT-1000D, TS-940S or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of air shipments, whether Fed-Ex, UPS or other carrier, remember that they use dimensional weight. Dim weights are used to insure adequate revenues per cubic foot of cargo plane space. The formula used to calculate dimensional weight is: L x W x H divided by 194. This means a 12" x 13" x 16" box that weighs six pounds will be sent at the twelve pound rate when an air service is used.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 414-358-0333 • 1-800-558-0411



CARL W9CLH



RICHARD K9RWE



GARY L. KA9YTB



JEFF N9EDQ



JIM WJ9P



MIKE N9LBO
Nat'l Sales Manager



PAUL W9KHO



RAY W9KHH



TOM W9TJP

CLEVELAND, OH 440-585-7388 • 1-800-321-3594



ALEX K8EUR



BEN AA8AH
Store Manager



BRUCE KE8TI



KIPP N2JAF



PHILLIP KB8GA



ROD WN8R



PATTY KC8PEQ

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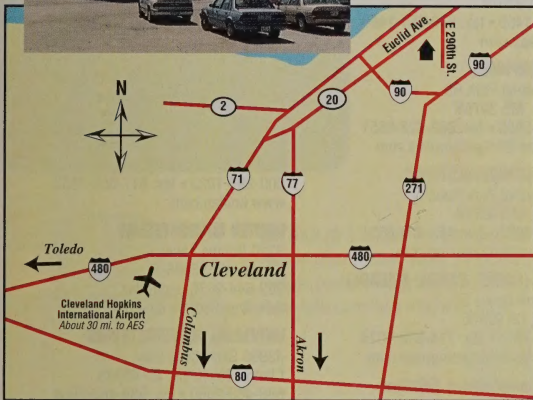
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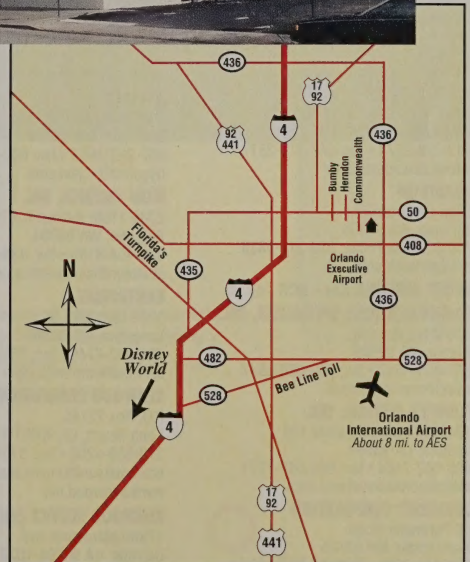
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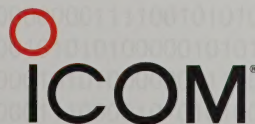
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